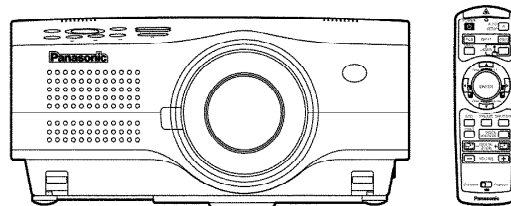


**ORDER NO. VED0407354C0**  
**D10**

**LCD Projector**  
**PT-L785U / PT-L785E**



**SPECIFICATIONS**

The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

## Specifications

### Power supply:

100 V - 240 V AC, 50 Hz / 60 Hz

### Power consumption:

380 W [During standby (when fan is stopped):

Approx. 11 W, during "WEB STANDBY" mode:

Approx. 40 W]

### Amps:

4.5 A - 2.0 A

### LCD panel:

Panel size (diagonal): 1.0 type (25.4 mm)

Aspect ratio: 4:3

Micro lens array: Available

Display method: 3 transparent LCD panels (RGB)

Drive method: Active matrix method

Pixels: 766 432 (1 024 × 768) × 3 panels

### Lens:

Electronic zoom (1 - 1.2) / focus

F 1.7 - 2.1, f 40.7 mm - 52.8 mm

### Lamp:

UHM lamp (270 W)

### Luminosity:

3 200 lm

### Scanning frequency (for RGB signals):

Horizontal scanning frequency:

15 kHz - 91 kHz

Vertical scanning frequency:

50 Hz - 87 Hz

Dot clock frequency:

108 MHz or less

### YPbPr signals:

480i, 576i, 480p, 576p,

1080/60i, 1080/50i, 720/60p

### Color system:

7 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / PAL60 / SECAM)

### Projection size:

1 016 mm - 7 620 mm

### Throw distance:

1.6 m - 16.0 m

### Optical axis shift:

10:0 (fixed)

### Screen aspect ratio:

4:3

### Installation:

Front / Rear / Ceiling / Desk (Menu selection method)

### Speaker:

4.0 cm × 3.0 cm oval × 2

### Max. useable volume output:

2 W (stereo)

### Connectors:

**DVI-D IN:** Single-line DVI-D 24-pin

**RGB IN / OUT:** Dual-line D-SUB HD 15-pin (female)

[One line is available for input and output,

selectable using an on-screen menu]

Single-line BNC × 5

During YPbPr input/output:

Y: 1.0 V [p-p] (including sync), 75 Ω

PbPr: 0.7 V [p-p], 75 Ω

During RGB input/output:

RGB: 0.7 V [p-p], 75 Ω

G.SYNC: 1.0 V [p-p], 75 Ω

HD / SYNC: TTL, automatic positive/negative

polarity compatible

VD: TTL, automatic positive/negative

polarity compatible

### AUDIO IN (for RGB):

Single-line 0.5 V [rms] M3 jack (Stereo MINI)

### VIDEO IN:

Single-line, RCA pin jack

1.0 V [p-p], 75 Ω

**S-VIDEO IN:** Single-line, Mini Din 4-pin

Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω,

### AUDIO IN (for S-VIDEO / VIDEO):

Single-line, 0.5 V [rms] RCA pin jack × 2 (L-R)

### AUDIO OUT:

Single-line, 0.5 V [rms] M3 jack (Stereo MINI)

(Monitor output/stereo compatible)

0 V [rms] - 1.0 V [rms] (variable)

### SERIAL:

D-sub 9p for external control (RS-232C)

### REMOTE:

D-SUB 9-pin for external control

### Wired LAN:

RJ-45 1x1, 10Base-T/100Base-TX for network connection

### Cabinet:

Molded plastic (PC/ABS)

### Dimensions:

Width: 290 mm

Height: 137 mm

Length: 406 mm (without lens cover)

### Weight:

5.8 kg

### Operating environment:

Temperature: 0° C - 40° C

(When the FAN CONTROL is set to "HIGH";

0° C - 35° C)

Humidity:

20 % - 80 % (no condensation)

### Certifications:

PT-L785U: UL60950, C-UL, FCC Class B

PT-L785E: EN60950, EN55022, EN61000-3-2,

EN61000-3-3, EN55024

### <Remote control unit>

### Power supply:

3 V DC (AAA battery × 2)

### Operating range:

Approx. 7 m

(when operated directly in front of signal receptor)

### Weight:

95 g (including batteries)

### Dimensions:

Width: 45 mm

Height: 23 mm

Length: 145 mm

### Accessories:

**Remote control unit (N2QAEA000022):**

1

**AAA batteries for remote control unit :**

2

**Power cord:**

for North America (K2CG3FZ00008):

1

for U.K. (K2CT3FZ00001):

1

for Continental Europe (K2CM3FZ00001):

1

**RGB signal cable [K1HB15FA0001 (3.0 m)]:**

1

**Cable cover [TXFKR01VJX7]:**

1

### Options:

**Ceiling mount bracket:** ET-PK780

**Ceiling mount bracket:** ET-PK780S

**(for low ceilings)**

**Wireless mouse receiver:** ET-RMRC2

### Projection lens:

ET-LE10 (for a short-distance projection)

ET-LE20 (for a medium-distance projection)

ET-LE30 (for a long-distance projection)

• Specifications are subject to change without notice.

• Weight and dimensions shown are approximate.

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*Please refer to the Operating Instructions in the appendix folder. / ([Go to Appendix List](#))*

**Panasonic**

## Trademark Acknowledgements

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  - Macintosh is a registered trademark of Apple Computer, Inc.
  - S-VGA is a registered trademark of the Video Electronics Standards Association.
  - Windows is a trademark or registered trademark of Microsoft Corporation in the United States of America and other countries.
- All other trademarks are the property of the various trademark owners.

### CAUTION

#### Lithium Battery

**Risk of explosion if battery is replaced by an incorrect type. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.**

(See also Operating Instructions)

### Precaution

If using this projector at high elevations (above 1 400 m), set the FAN CONTROL to HIGH. (Refer to "Option settings" in Operating Instructions.)

Failure to observe this may cause malfunctions.

Never use this projector at an elevation of 2 700 m or higher.

Using this projector at high elevations, consult your dealer or Authorized Service Center about preparations.

## About lead free solder (PbF)

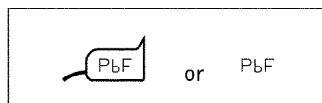
This projector is using the P.C.Board which applies lead free solder. The use of lead free solder is recommended from the standpoint of antipollution for the global environment in service.

Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically, the melting point is 30°C to 40°C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to 370±10°C.
- Be precautionous about lead free solder: Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as "PbF") which uses lead free solder. (When you unavoidably use lead solder, use lead solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After soldering to double layered P.C.Boards, check the component side for excess solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board

For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.



For US

## IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

### WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Any unauthorized changes or modifications to this equipment will void the users authority to operate.

## 1. Safety Precautions

### 1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.



- Unplug the power cord from the power outlet before disassembling this projector.
- It is advisable to use an isolation transformer in the AC power line before the service.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

## 1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig.1.

Be sure to use a voltmeter having the performance described in Table 1.

Fig. 1

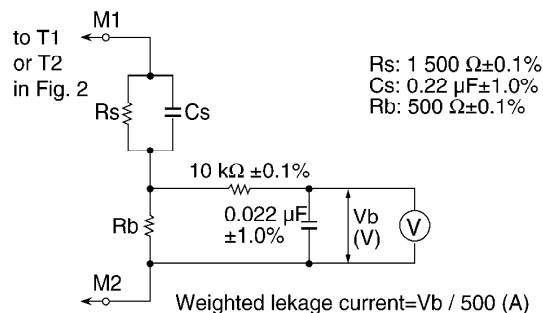
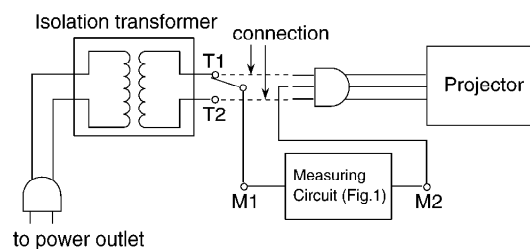


Table 1

	Performance
Voltmeter (rms reading)	Accuracy: $\leq 2\%$
	Input resistance: $\geq 1 \text{ M}\Omega$
	Input capacitance: $\leq 200 \text{ pF}$
	Frequency range: 15 Hz to 1 MHz

Fig. 2



2. Assemble the circuit as shown in Fig. 2. Plug the power cord in a

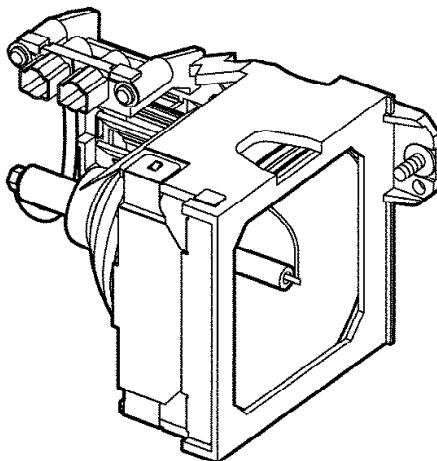
power outlet.

3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

### 1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- Because the high pressure lamp involves a risk of explosion, never touch the lamp wire lead during the service. (See Fig. 3)

Fig.3



## 2. Ext Option

This projector has EXT OPTION in addition to standard on-screen menus.

- There are SELF CHECK and TEST PATTERN (Service Mode) for service, etc.

## 2.1. Procedure to enter EXT OPTION

1. Press "MENU" button on the main unit or remote control unit to display "MENU" screen.
2. Select "OPTION" menu using "◀" and/or "▶" buttons.
3. Select "OSD" and press "ENTER" button 3 seconds or longer.  
MENU → OPTION → OSD

## 2.2. EXT OPTION Menu and Functions

### EXT OPTION

FREEZE MESSAGE	OFF	ON
FAN FULL MODE	OFF	ON
SELF CHECK		
TEST PATTERN		
FLICKER ADJ.		
MASK PULSE	STANDARD	SPECIAL

#### - FREEZE MESSAGE

Switching ON/OFF "FREEZE" on-screen display

#### - FAN FULL MODE

Switching ON "FAN FULL MODE", the rotation level of the fan becomes high-speed rotation (fixed). Moreover, when "FAN FULL MODE" is ON, changing "FAN CONTROL" in OPTION menu becomes impossible (setting FAN FULL MODE is given priority more than FANCONTROL).

#### Caution:

- Switching ON "FAN FULL MODE" while used usually (at an elevation of lower than 1 400 m), this may cause malfunctions.

#### - SELF CHECK

To enter the self-check mode

#### - TEST PATTERN

To enter the service mode

#### - FLICKER ADJ

To enter the flicker adjustment mode

#### - MASK PLUSE

- To receive a special signal, the signal is specially processed.
- When the signal of YPbPr480i or YPbPr576i is inputted, the synchronization might become unstable. It might be stable when MASK PULSE is set to SPECIAL.

### **2.3. Canceling EXT OPTION**

Press "MENU" button on the main unit or remote control unit.

## **3. Self-Check Mode**

This mode is used to narrow down the location of the failure.

### **3.1. Procedure to enter the self-check mode**

Select "SELF CHECK" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

### **3.2. Self Check Display and Contents**

Display example	
①	MAIN   ***   LAN   ***
②	FPGA   ***
③	SET RUN TIME   **** h
④	G SAVED   OK   U SAVED   OK
⑤	TEMP STATUS   OK   BATTERY   OK
⑥	TEMP1   ***
⑦	TEMP2   ***
⑧	FAN STATUS   OK
⑨	LAMP STATUS   OK
⑩	LAMP 1500H   OK   LAMP RESET   ***
⑪	LAMP[1]   **** h   ****   **** h
⑫	LAMP[2]   **** h   ****   **** h
⑬	LAMP[3]   **** h   ****   **** h
⑭	FREQUENCY   Fh: ****.*** KHz Fv: ****.*** Hz
⑮	Display dot   ****   dot
⑯	Display Line   ****   Line
⑰	Total dot   ****   dot
⑱	Total Line   ****   Line
⑲	Signal Type   **
⑳	MAC Address   ****.***.***.***

\* This display is an example and the display contents depend on the input signal mode.

②③ ← The result of items "G SAVED", "U SAVED", "BATTERY" and "LAMP 1500H", "OK" is displayed for OK and "NG" is displayed for NG.

⑨ ← The result of items "TEMP STATUS", "FAN STATUS", "LAMP STATUS" and "LAMP 1500H", the OK display becomes red characters when shutting down because abnormality happened last time.

	Display Contents	Remarks
①	Main Microcomputer Version Display	Main Microcomputer (IC1061) Software Version
②	FPGA Version Display *1	FPGA (IC1115) Software Version
③	Total Usage Time	Projector Cumulative Usage Time
④	Gamma Correction Data Check	It is distinguished whether gamma data is stored in the flash ROM.
⑤	Temperature Abnormality Check	Cause of Lamp Malfunction
⑥	Thermosensor 1 Measurement Value *2	Around Air Outlet (A/D conversion value: 0 - 255)
⑦	Thermosensor 2 Measurement Value *2	Around Air Inlet (A/D conversion value: 0 - 255)
⑧	Fan Stop Check	Cause of Lamp Malfunction
⑨	Lamp - Abnormality Check	Cause of Lamp Malfunction
⑩	Lamp - Judgment for Cumulative Usage more than 1 500 h *3	Judgment for Replacement Time of Lamp
⑪	Lamp ON - Cumulative Usage Time /	Cumulative Usage Time (actual time), ON Frequency and Cumulative Usage Time (conversion time for 270 W) of the lamp are shown from the left.
⑫	Frequency / Cumulative Usage Time	
⑬	First	
⑭	Horizontal Signal Frequency	Main Microcomputer Detection Value
	Vertical Signal Frequency	Main Microcomputer Detection Value
⑮	Display Dots	Main Microcomputer Detection Value
⑯	Display Lines	Main Microcomputer Detection Value
⑰	Total Dots	Main Microcomputer Detection Value
⑱	Total Lines	Main Microcomputer Detection Value
⑲	Signal	Signal Name
⑳	MAC Address	MAC Address
㉑	Network Microcomputer Version Display	Network Microcomputer (IC1204) Software Version
㉒	Color Unevenness Correction Data Check	It is distinguished whether color unevenness correction data is stored in the flash ROM.
㉓	Battery Empty	It is distinguished whether Lithium battery replacement is required.
㉔	Lamp - Reset Frequency of Cumulative Usage Time	Reset Frequency (0 - 255)

\*1 FPGA (Field Programmable Gate Array)

LSI that is rewritable quickly while inspecting the program by system designer. (This will be able to reduce the development time.)

\*2 When detected abnormal temperature (high temperature around the air inlet and/or outlet ports, large difference between temperature around the air inlet/outlet ports), TEMP indicator turned on. If arriving at the critical temperature, the power supply will be shutdown automatically and the indicator will flash.

\*3 Warning of the lamp cumulative usage time and shutdown use the conversion time for 270 W.

### 3.3. Canceling the self-check mode

Press "MENU" button on the main unit or remote control unit.

## 4. Service Mode

This mode is used to display five kinds of test patterns [Horizontal lines, Vertical lines, Dots, Crosshatch and White (No pattern)] in the four colors (White, Red, Green and Blue).

**Note:**

- On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for simplified adjustments by your eyes and so on.

#### 4.1. Procedure to enter the service mode

Select "TEST PATTERN" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

Note:

- In the service mode, pressing the up-arrow "▲" or down-arrow "▼" button allows the test pattern selection and the left-arrow "◀" or right-arrow "▶" button the color selection (White / Red / Green / Blue).

#### 4.2. Canceling the service mode

Press "MENU" button on the main unit or remote control unit.

### 5. Flicker Adjustment Mode

If replacing the optical parts (Analysis / LCD / Lens block) of this projector, enter the flicker adjustment mode and minimize the flicker.

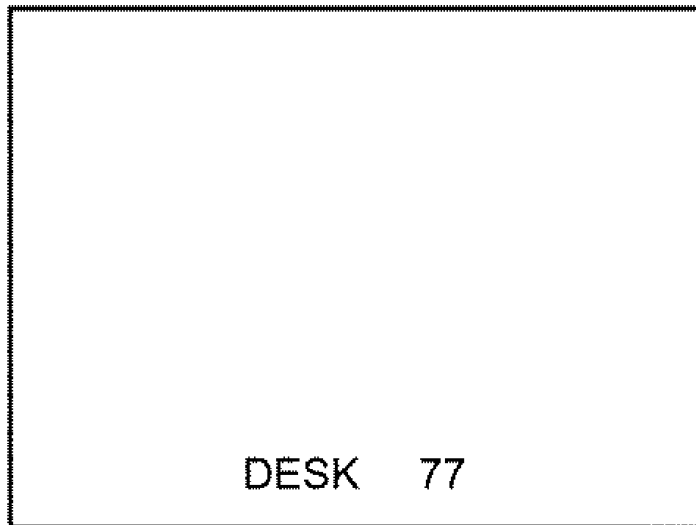
Also when replacing the analysis block or A-P.C.Board (assembly), execute 9.7. "Flicker Adjustment".

#### 5.1. Procedure to enter the adjustment mode

Select "FLICKER ADJ" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

Note:

"DESK setting (blue)" is displayed when entering the adjustment mode.



## Adjustment Display when DESK setting

### 5.2. Adjustment Display and Contents

- Setting value is increased and decreased with the right-arrow "▶" and left-arrow "◀" buttons.  
"◀": Decrease, "▶": Increase
- Adjust the setting value to minimize the flicker on the screen.
- Execute the adjustment by 6 patterns below.
- The pattern (adjustment display) is switched with the up-arrow "▲" and down-arrow "▼" buttons.  
"▲": Forward direction, "▼": Reverse direction
- There are 6 patterns of "DESK setting (blue)", "DESK setting (red)", "DESK setting (green)", "CEILING setting (blue)", "CEILING setting (red)" and "CEILING setting (green)".
- The setting value is saved into this projector when the pattern is switched.

### 5.3. Canceling the flicker adjustment mode

Press "MENU" button on the main unit or remote control unit.

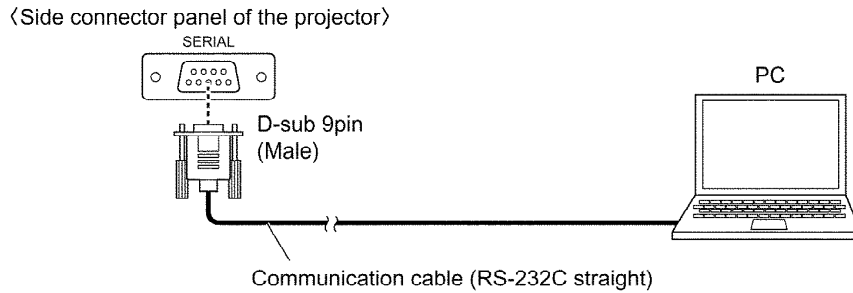
Note:

When "MENU" button is pressed, the setting value at that time is saved into this projector and the adjustment mode is canceled.

## 6. Using the SERIAL Connector

The serial connector which is on the side connector panel of the projector conforms to RS-232C standard. This projector can be controlled by a PC which is connected as shown in "6.1. Connection". For controlling this projector by a PC, requires communication software on the market, and inputs control commands according to communication settings and basic format below.

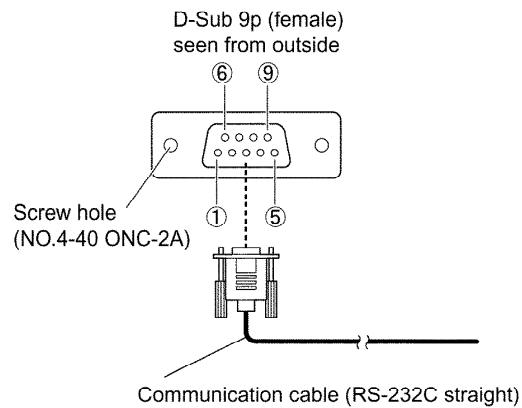
## 6.1. Connection



### Note:

Use a proper communication cable which is suitable for the PC to connect SERIAL connector and the PC.

## 6.2. Pin Layout and Signal Names for SERIAL Connector





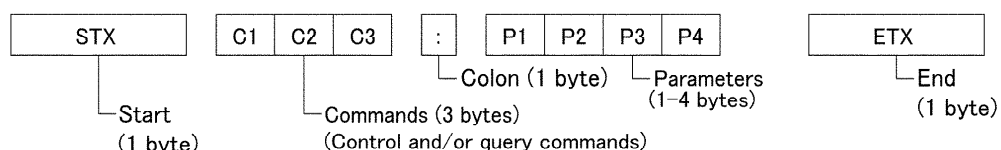
Pin No	Signal Name	Contents
1	---	NC
2	TXD	Transmit data
3	RXD	Receive data
4	---	NC
5	GND	Ground
6	DSR	Connected internally
7	CTS	
8	RTS	
9	---	NC

### 6.3. Communication Settings

Signal Level	Contents		Description
Sync. method	Conforms to RS-232C standard	Asynchronous	Synchronizes every 1 character (bits)
Baud rate		9 600 bps	Data transfer speed
Parity		None	Error detection method
Character length		8 bits	Number of bit composing 1 character
Stop bit		1 bit	Uses stop bit when asynchronous method
X parameter		Not used	
S parameter		Not used	

### 6.4. Basic Format

The data sent from the PC to the projector is transmitted in the format shown below.



Notes:

- If sending multiple commands, check that a call back has been received from the projector for 1 command before sending the next command.
- When a command which does not require parameters is sent, the colon (:) is not required.

## 6.5. Control / Query Commands

### Control Commands

Command Name (Parameter format is shown in <>)	Function / Contents	Call back from Projector (Parameter format is shown in <>)	Minimum Value of Parameter	Maximum Value of Parameter
PON *	POWER ON	PON	—	—
POF *	POWER OFF	POF	—	—
AVL : <pl>	VOLUME	AVL : <pl>	0	63
IIS : <input signal>	INPUT SELECT	IIS : <input signal>	—	—
OST	STANDARD	OST	—	—
OFZ : <off_on>	FREEZE	OFZ : <off_on>	0	1
OEN	ENTER	OEN	—	—
VPM : <picture mode>	PICTURE MODE	VPM : <picture mode>	—	—
AUU	VOLUME UP	AUU	—	—
AUD	VOLUME DOWN	AUD	—	—
OMN	MENU	OMN	—	—
OCU	CURSOR UP	OCU	—	—
OCD	CURSOR DOWN	OCD	—	—
OCL	CURSOR LEFT	OCL	—	—
OCR	CURSOR RIGHT	OCR	—	—
OAS	AUTO SETUP	OAS	—	—
OSH *	SHUTTER	OSH	—	—
DZU	D.ZOOM UP	DZU	—	—
DZD	D.ZOOM DOWN	DZD	—	—
OLP : <lamp power> *	LAMP POWER	OLP : <lamp power>	0	1
OSI : <ProjectorID>	PROJECTOR ID	OSI : <ProjectorID>	0	64
OAF : <time>	AUTO POWER OFF	OAF : <time>	0	60

\* Do not transmit the PON, POF, OSH and/or OLP commands continuously in a short time.  
The lamp may be damaged and/or cause malfunctions.

### Query Commands

Query Command	Contents	Call back from Projector (Parameter format is shown in <>)
QPW	POWER CONDITION	<power condition>
QIN	INPUT SIGNAL	<input, signal>
QAV	VOLUME LEVEL	<pl>
QVC	COLOR LEVEL	<pl>
QVT	TINT LEVEL	<pl>
QVB	BRIGHT LEVEL	<pl>
QVR	CONTRAST LEVEL	<pl>
QVS	SHARPNESS LEVEL	<pl>
QWR	WHITE BALANCE LEVEL (RED)	<pl>
QWG	WHITE BALANCE LEVEL (GREEN)	<pl>
QWB	WHITE BALANCE LEVEL (BLUE)	<pl>
QHP	H-POSITION LEVEL	<pl>
QVP	V-POSITION LEVEL	<pl>
QCP	COLOR PHASE LEVEL	<pl>
QDC	DOT CLOCK LEVEL	<pl>
QSP	INSTALLATION	<installation>
QLG	LANGUAGE	<language>
QPM	PICTURE MODE	<NAT> = Natural <STD> = Standard <DYN> = Dynamic
OFZ	FREEZE	<off_on>
OLP	LAMP POWER	<lamp power>
QSL	LAMP ON TIME	<acctch>
QSH	SHUTTER	<off_on>
QKV	V-KEYSTONE	<pl>
QKH	H-KEYSTONE	<pl>
QRI	RGB2 SELECT	<RGB2 select>
QTE	COLOR TEMPERATURE	<color temp.>
QSI	PROJECTOR ID	<ProjectorID>
QAF	AUTO POWER OFF	<time>

## Parameters

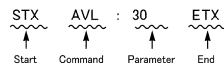
Parameter Format	Parameter Size (Byte)	Parameter Definition
(pl)	3 (provided that approves of 1 byte or 2 bytes when control)	Decimal notation without plus/minus sign (0 to 999). Decimal notation with plus/minus sign (-99 to +99) Returns 3 bytes call back from the projector. Decimal notation without plus/minus sign (000, 001, 002, ..., 999). Decimal notation with plus/minus sign (-99, ..., -01, +00, +01, +02, ..., +99)
(off_on)	1	0=OFF, 1=ON
(input signal)	3	V/D = VIDEO, SVD = 9-VIDEO, RG1 = RGD1, RG2 = RGB2, RG3 = RGB3, DVI = DVI
(installation)	1	0=FRONT/DESK, 1=REAR/DESK, 2=FRONT/CEILING, 3=REAR/CEILING
(language)	3	ENG=English, DEU=German, FRA=French, ESP=Spanish, ITA=Italian, JPN=Japanese, CHI=Chinese, RUS=Russian, KOR=Korean
(power condition)	3	000=Power OFF, 001=Power ON
(acscch)	4	Decimal notation without plus/minus sign: 0000 hour to 9999 hours
(picture mode)	3	NAT=Natural, STD=Standard, DYN=Dynamic
(lamp power)	1	0=LOW, 1=HIGH
(color temp.)	1	0=LOW, 1=STD, 2=HIGH
(RGB2 select)	3	ZIN=INPUT, ZOU=OUTPUT
(ProjectorID)	2	0 to 64
(when controlling, 1 byte is acceptable.)	1	
(time)	2	0 = OFF, 15-60 = AUTO POWER OFF time (15, 20, ..., 55, 60) [unit: min.]
(when controlling, 1 byte is acceptable.)	1	

\* If an incorrect command is sent from the PC, the "ER401" command will be sent from the projector to the PC.

### [Example]

When controls the audio volume to +30 by a PC

(Sends commands as the following)



- When a command which does not require parameters is sent, the colon (:) is not required.

## 6.6. Communication Cable Specifications

At the projector	At the PC (DTE)
1 NC	NC 1
2	2
3	3
4 NC	NC 4
5	5
6 DSR	NC 6
7	7
8	8
9 NC	NC 9

## 6.7. Signal Selector Connecting Cable Specifications

When connecting to a signal selector (ex. TW-SWS62J), use a cable with specifications below.  
Connecting method: Connects a video signal cable from the signal selector to "VIDEO IN", and an RGB signal cable to "RGB1 IN".

At the signal selector D-sub 9p (male)		At the projector (DCE) D-sub 9p (male)	
Signal Name	Pin No.	Pin No.	Signal Name
NC	1	1	NC
RD Receive data	2	2	SD Transmit data
SD Transmit data	3	3	RD Receive data
NC	4	4	NC
GND Ground	5	5	GND Ground
NC	6	6	DSR
RS Transmit request	7	7	CS Transmit permission
CS Transmit permission	8	8	RS Transmit request
NC	9	9	NC

**Note:**

Set VP control terminal switch of the signal selector to VP TYPE "B".

## 7. Using the REMOTE Connector

### 7.1. Control Method

Controls by each terminal of the REMOTE connector is grounded (connect to pin 1).

### 7.2. Pin Layout and Signal Names for REMOTE Connector

The connector used is the same as "SERIAL connector".

**Note:**

Refer to section 6.2. "Pin Layout and Signal Names for SERIAL Connector" for the pin layout.

Pin No	Signal Name	Contents
1	GND	Ground
2	POWER	Power (Lamp) ON
3	INPUT SEL3	Input signal select 3
4	—	NC
5	INPUT SEL1	Input signal select 1
6	INPUT SEL2	Input signal select 2
7	—	NC
8	—	NC
9	ENABLE	Enables remote control

\* When the pin 2 is open, the projector is in standby condition.

### 7.3. Switching the Input Mode

The input mode can be switched by combining the input signal select terminals (pins 3, 5 and 6).

	RGB1	RGB2	RGB3	VIDEO	S-VIDEO	DVI
Pin 3	H	H	L	L	L	H
Pin 5	H	L	H	H	L	H
Pin 6	H	H	L	H	H	L

\* H: Open, L: Ground (connect to pin 1)

#### 7.4. Caution and Limitations

- Do not ground pins 2, 3, 5 and 6, when the remote control is disable (pin 9 is open). The projector will ignore signals from the remote control unit.
- The POWER, RGB and VIDEO buttons will not operate when the remote control is enable (pin 9 is grounded).

### 8. Disassembly Instructions

#### Warning:

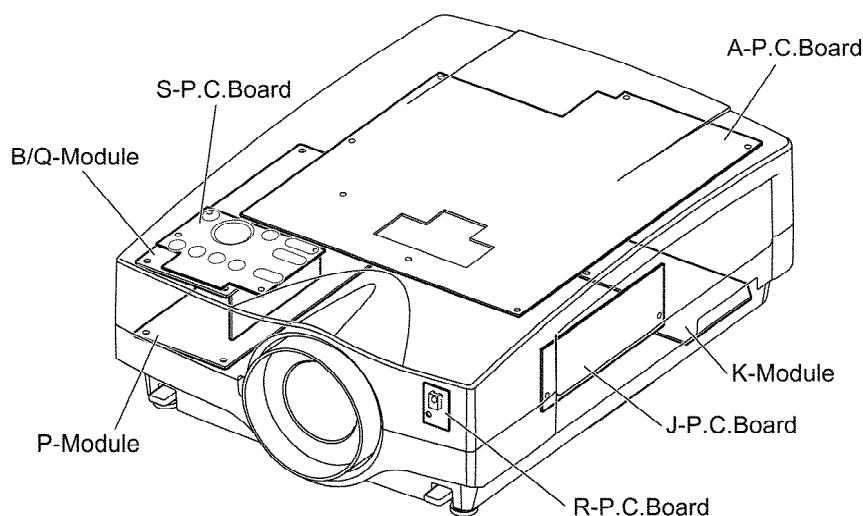
- Be sure to unplug the power cord from the power outlet before disassembling this projector.

#### Caution:

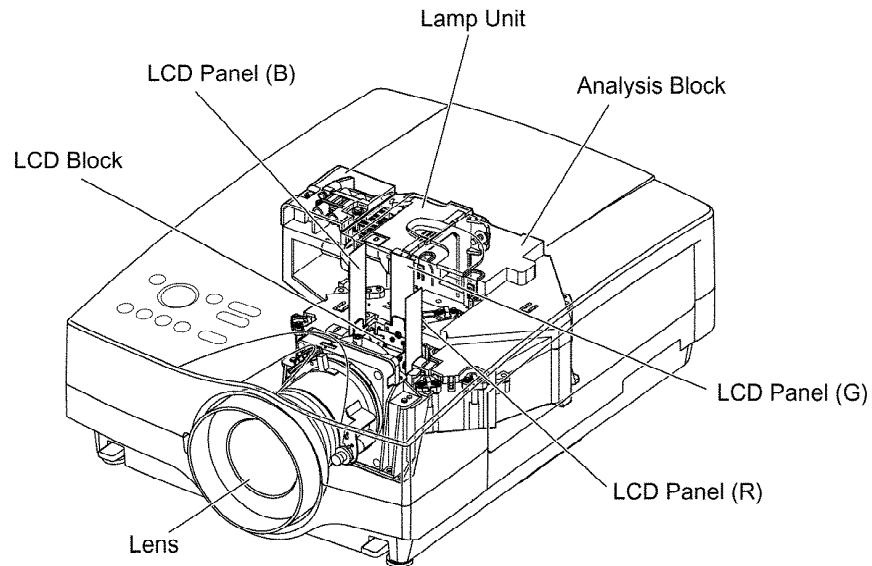
- While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.
- Printed circuit boards and wires must not be pulled forcibly, but be handled carefully.
- Connectors also must be handled carefully.
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

#### 8.1. Printed Circuit Board and Main Parts Location

##### Electrical Parts

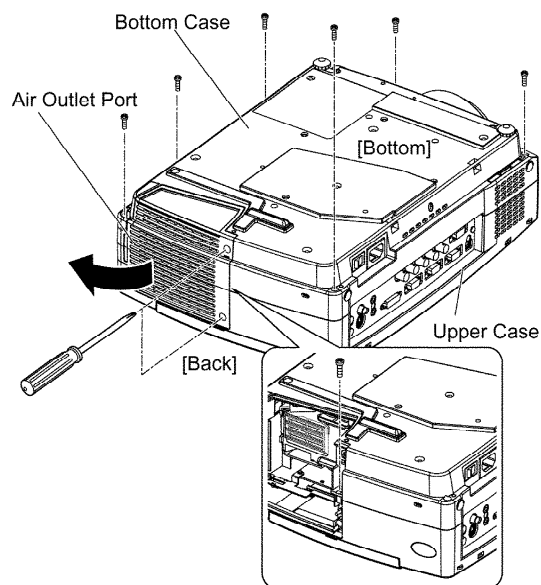


## Optical Parts



## 8.2. Removal of Upper Case

1. Turn the projector upside down.
2. Loosen the 2 screws until they idle, open the air outlet port.
3. Unscrew the 7 screws.



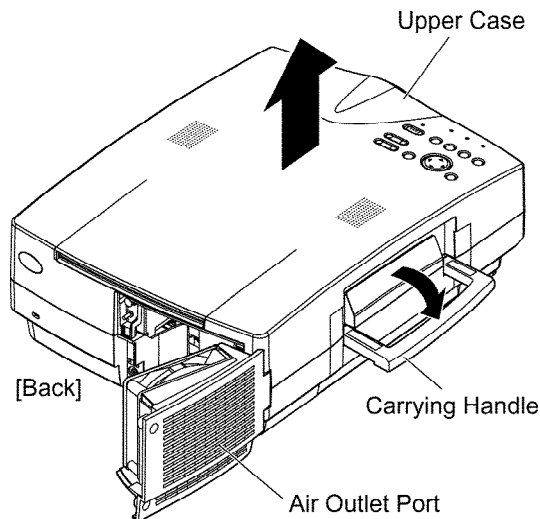
4. Return the projector to the normal position.

**Note:**

- Pay attention the air outlet port must not be fixed.

5. Open the carrying handle.

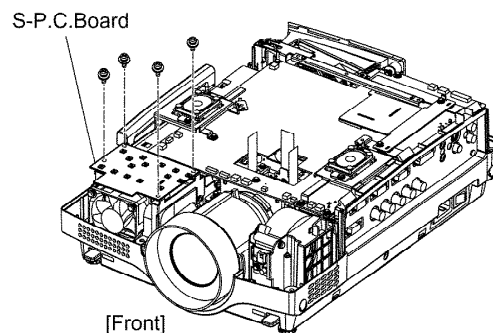
6. Remove the upper case.



### 8.3. Removal of S-P.C.Board

1. Remove the upper case according to the section 8.2. "Removal of Upper Case".

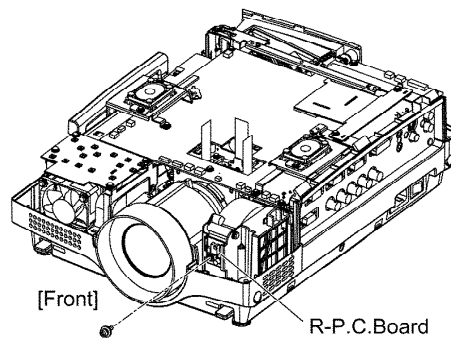
2. Unscrew the 4 screws and remove the S-P.C.Board.



### 8.4. Removal of R-P.C.Board

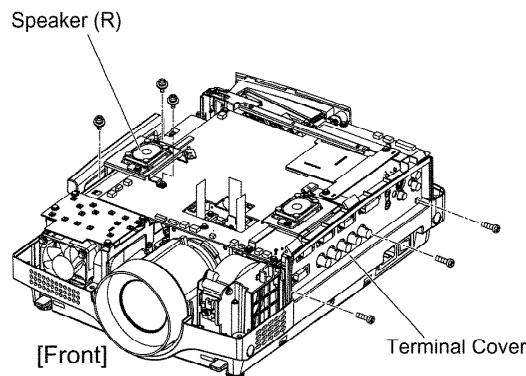
1. Remove the upper case according to the section 8.2. "Removal of Upper Case".

2. Unscrew the 1 screw and remove the R-P.C.Board.

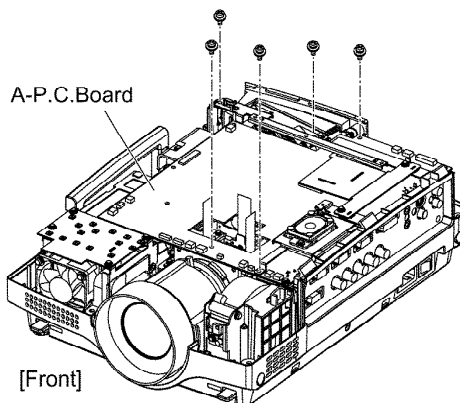


## 8.5. Removal of A-P.C.Board

1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Unscrew the 3 screws fixing the terminal cover.
3. Unscrew the 3 screws and remove the speaker (R) with the metal fittings.



4. Unscrew the 5 screws fixing the A-P.C.Board block.



5. Disconnect the connectors from/to the A-P.C.Board.
6. Take the A-P.C.Board block out from the main unit of the



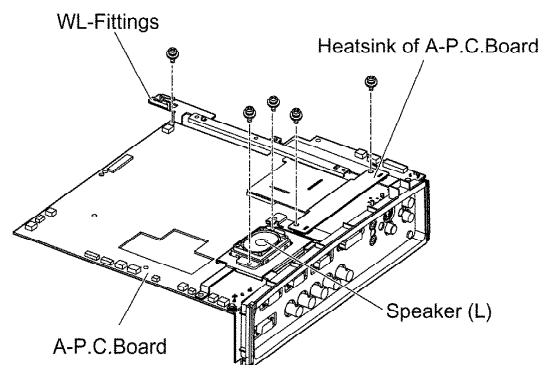
**projector.**

**<Disassembling the A-P.C.Board Block>**

**7. Unscrew the 2 screws and remove the heatsink of A-P.C.Board.**

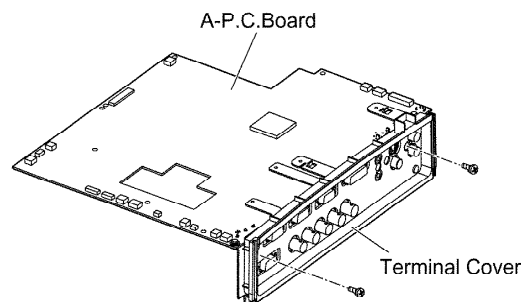
**8. Unscrew the 2 screws and remove the speaker (L).**

**9. Unscrew the 1 screw and remove the WL-fittings.**



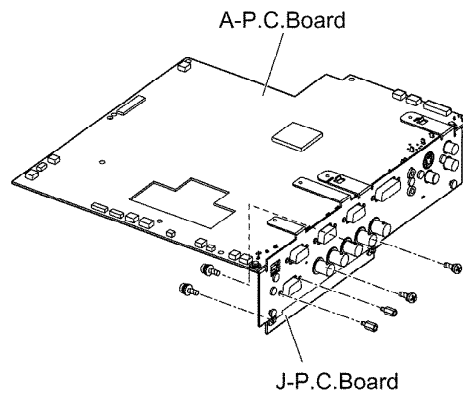
**<Removing the J-P.C.Board>**

**10. Unscrew the 2 screws and remove the terminal cover.**



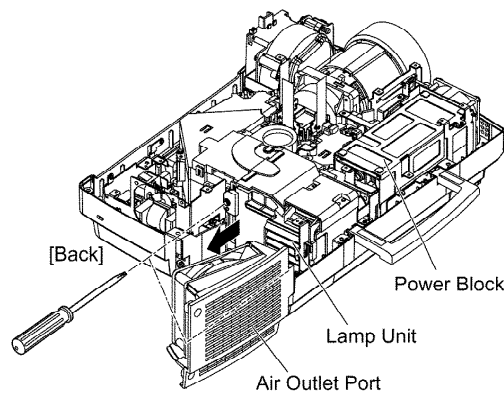
**11. Unscrew the 2 hex-head screws and 2 ornament screws.**

**12. Unscrew the 2 screws and remove the J-P.C.Board.**

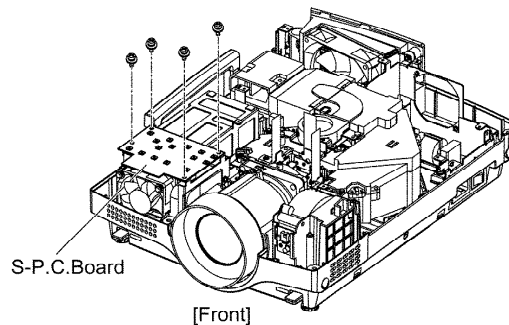


### 8.6. Removal of P-Module)

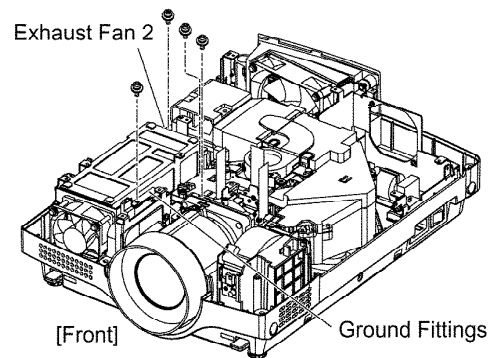
1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 8.5. "Removal of A-P.C.Board".
2. Loosen the 2 screws until they idle and remove the lamp unit.



3. Unscrew the 4 screws and remove the S-P.C.Board.

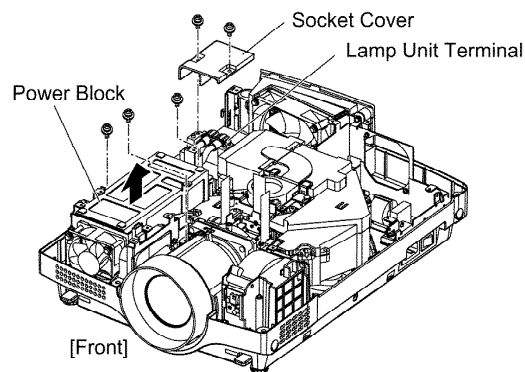


4. Unscrew the 2 screws and remove the ground fittings.
5. Unscrew the 2 screws and remove the exhaust fan2.

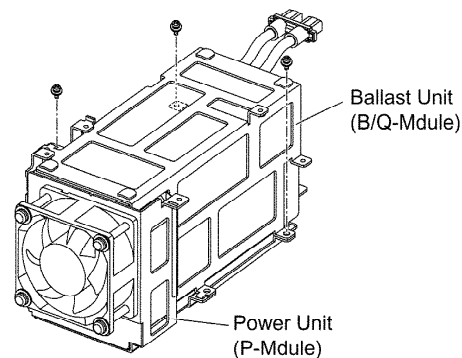


**6. Unscrew the 2 screw and remove the socket cover, then remove the lamp unit terminal.**

**7. Unscrew the 3 screw and remove the power block.**

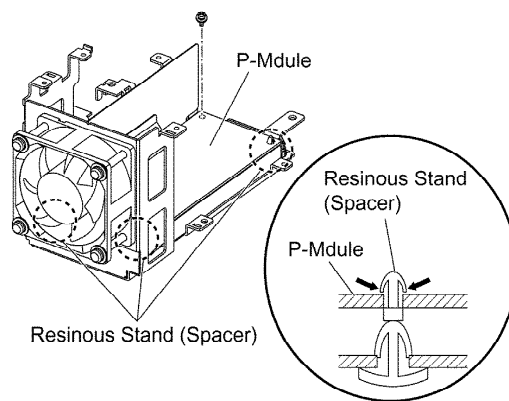


**8. Unscrew the 3 screw and separate the power unit and ballast unit.**



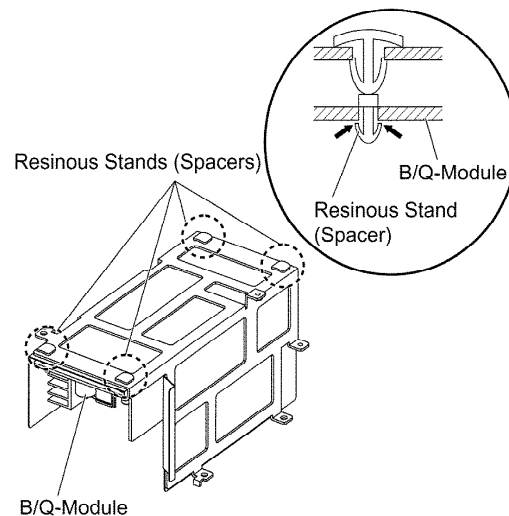
**9. Remove the 1 screw.**

**10. While pressing to shut each hook of the 3 resinous stands (spacers), remove the P-Module.**



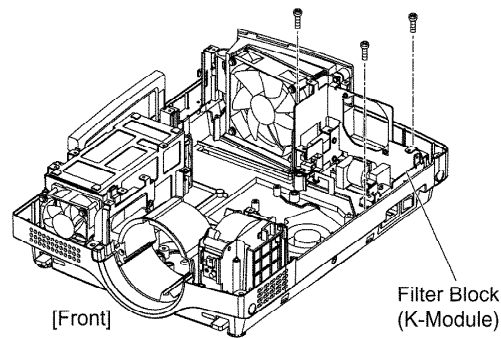
### 8.7. Removal of Ballast Unit (B / Q-Module)

1. Remove the power block, then separate the power unit and the ballast unit according to the steps 1 through 8 in the section 8.6. "Removal of P-Module".
2. While pressing to shut each hook of the 4 resinous stands (spacers), remove the B/Q-Module.



### 8.8. Removal of K-Module

1. Remove the analysis block according to the steps 1 through 8 in the section 8.9. "Removal of Analysis Block".
2. Unscrew the 3 screws and remove the filter block (K-Module) .

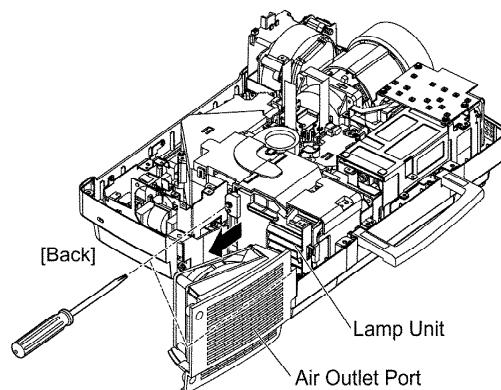


**Note:**

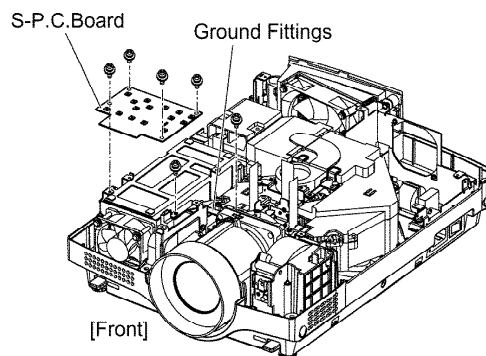
- Under this condition, the repair and the parts replacement of the K-Module are possible.

### 8.9. Removal of Analysis Block

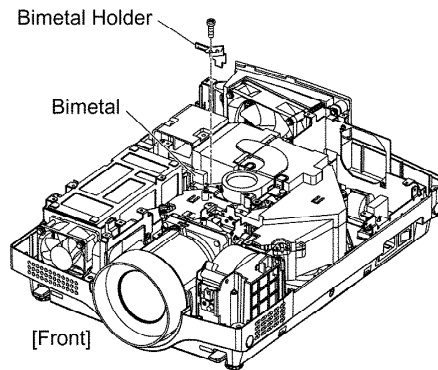
1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 8.5. "Removal of A-P.C.Board".
2. Loosen the 2 screws until they idle and remove the lamp unit.



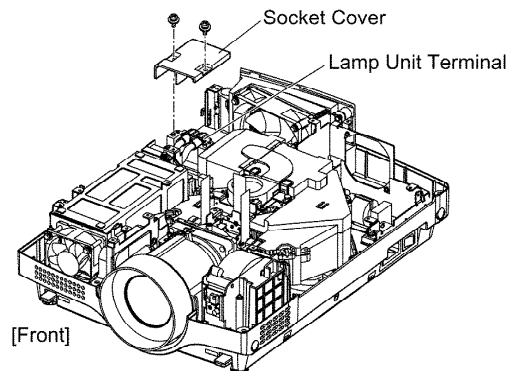
3. Unscrew the 4 screws and remove the S-P.C.Board.
4. Unscrew the 2 screws and remove the ground fittings.



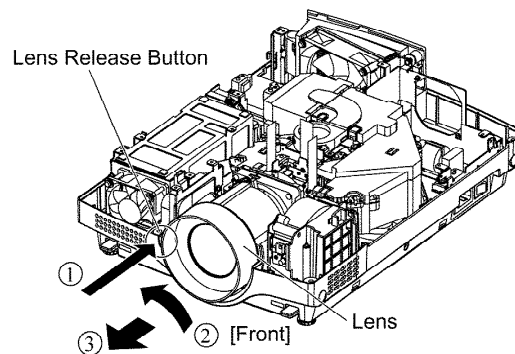
**5. Unscrew the 1 screw and remove the bimetal holder.**



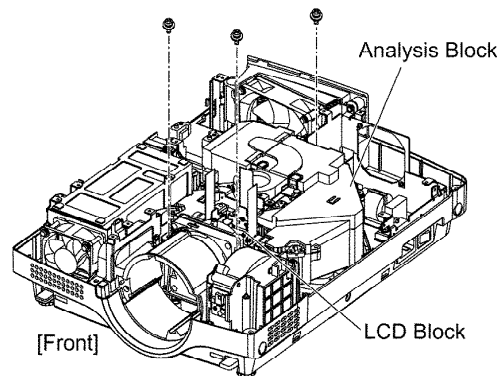
**6. Unscrew the 2 screws and remove the socket cover, then remove the lamp unit terminal.**



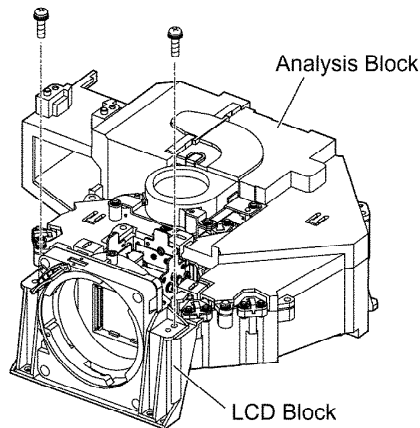
**7. While pressing the lens release button, fully turn counterclockwise the lens and pull it out.**



**8. Unscrew the 3 screws and take the analysis and LCD blocks out.**

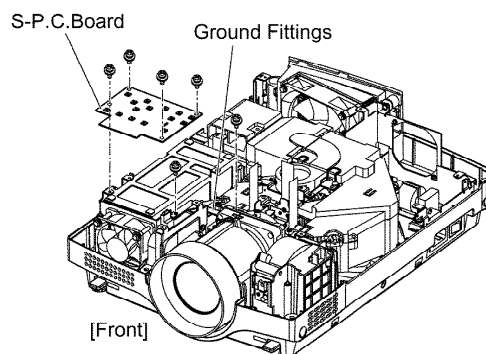


**9. Unscrew the 2 screws and remove the LCD block.**

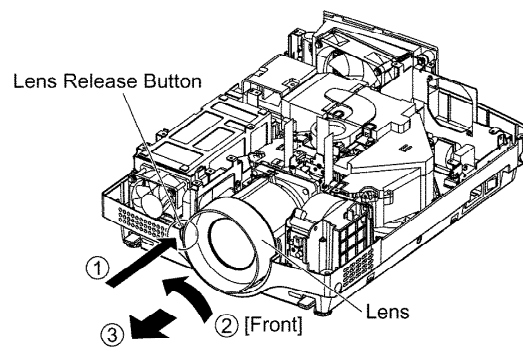


### **8.10. Removal of LCD Block**

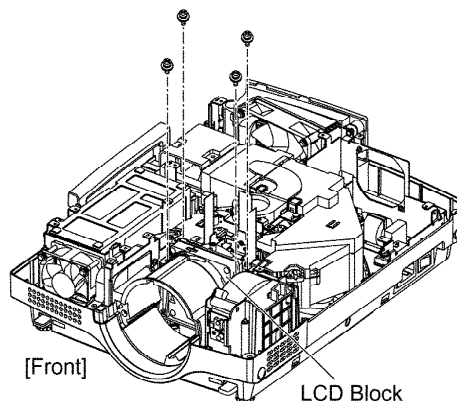
- 1. Take the A-P.C.Board out according to the steps 1 through 6 in the section 8.5. "Removal of A-P.C.Board".**
- 2. Unscrew the 4 screws and remove the S-P.C.Board.**
- 3. Unscrew the 2 screws and remove the ground fittings.**



- 4. While pressing the lens release button, fully turn counterclockwise the lens and pull it out.**



**5. Unscrew the 4 screws and remove the LCD block.**



### **8.11. Replacement of LCD Panel**

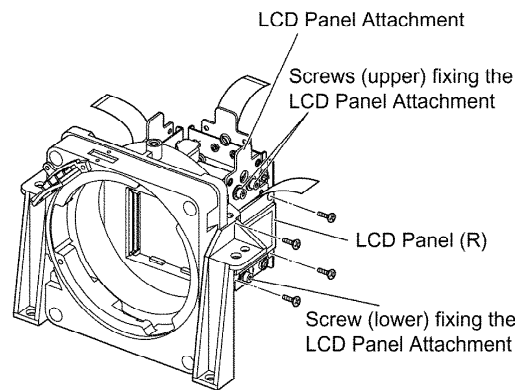
- 1. Remove the LCD block according to the section 8.10. "Removal of LCD Block".**
- 2. Unscrew the 4 screws and replace the LCD panel. (Remove the old LCD panel and install a new one.)**

**Note:**

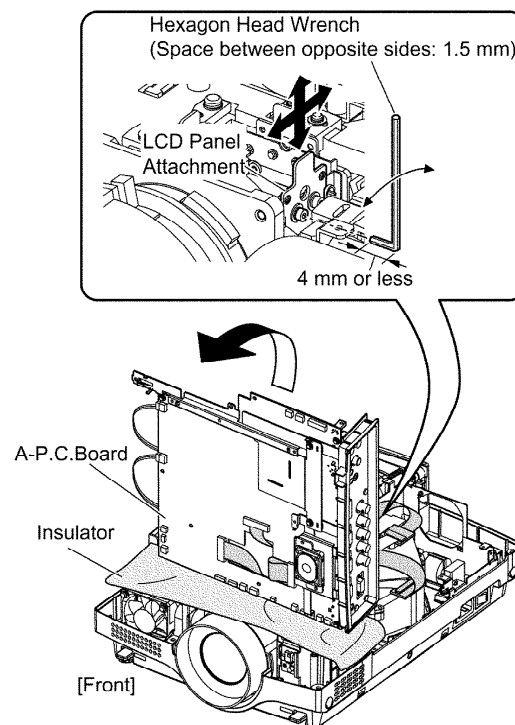
**- Be careful not to touch the LCD panel surface.**

- 3. Use a hexagon head wrench, loosen the 3 screws fixing the LCD panel attachment and screw them temporarily just until the LCD panel attachment can be shifted by your fingers.**





4. Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws fixing the A-P.C.Board block as they are removed.
5. Adjust the convergence according to the section 9.4. "Convergence Adjustment".
6. After the adjustment, screw the 2 screws (upper) fixing the LCD panel attachment temporarily with care not to vary the adjusting result.



**Notes:**

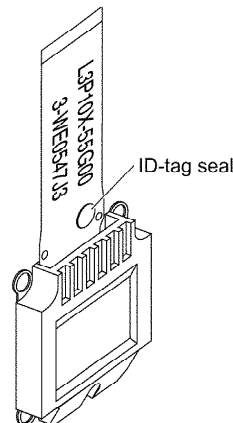
- Work carefully not to damage the flexible cable.
- Prepare a hexagon head wrench as shown in the above figure.

7. Remove the LCD block again.
8. Tighten the 3 screws fixing the LCD panel attachment.
9. Reassemble the projector as it was.

#### 8.12. LCD Panel Discrimination

ID-tag seal color	LCD panel
Red	LCD panel (R)
Blue	LCD panel (B)
(No seal)	LCD panel (G)

- Since the ID-tag seal is pasted to the FPC of LCD Panel, (R), (G) or (B) can be easily identified by the color of the seal.
- Finally, identify the panel color by the part number printed on the FPC.



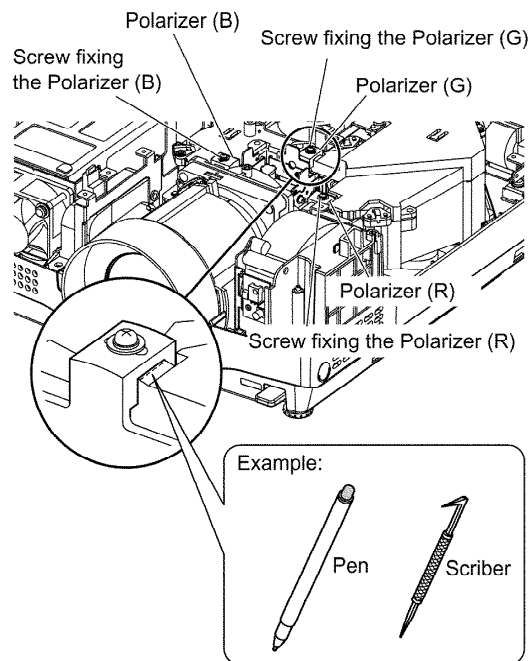
#### 8.13. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.
- When replacing LCD Panel, use a component which has the same part number as the original.

LCD panel	Part No.
R	L5BDAXQ00182 / (L3P10X-55G00)
G	L5BDAXQ00183 / (L3P10X-55G00)
B	L5BDAXQ00184 / (L3P10X-55G00)

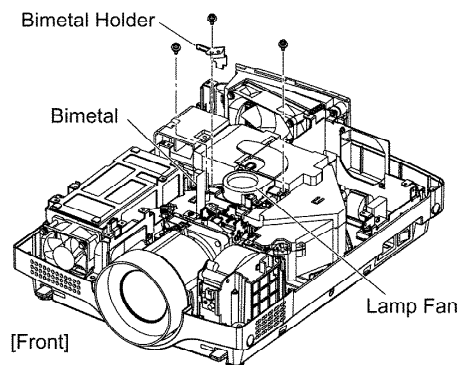
#### 8.14. Replacement of Polarizer

1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 8.5. "Removal of A-P.C.Board".
2. Mark positions of the polarizer (R/G/B).  
**Note:**  
- Mark accurately as possible because the marks will be used for resetting the polarizer position.
3. Unscrew each screw fixing the polarizer and remove the polarizer.
4. Attach a new polarizer and align it with the mark.
5. Tighten the screw fixing the polarizer with care not to move its position.



### 8.15. Replacement of PBS Array (Analysis Block)

1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 8.5. "Removal of A-P.C.Board".
2. Unscrew the 1 screw and remove the bimetal holder.
3. Unscrew the 2 screws and remove the lamp fan.



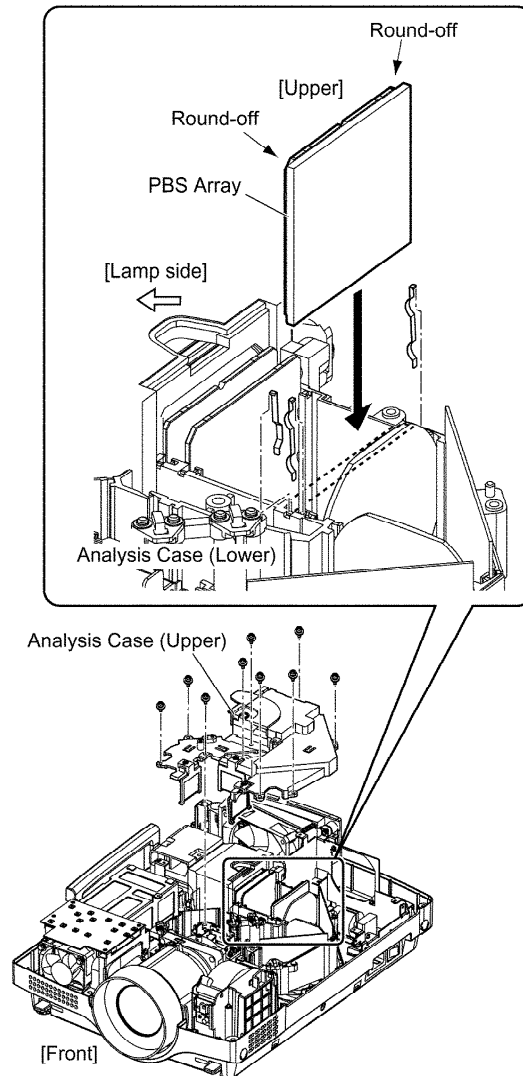
4. Unscrew the 9 screws and remove the analysis case (upper) upward.

#### Notes:

- Polarizers (R/G/B) are attached on the analysis case (upper).  
Handle with care not to apply external force to the polarizers.
- Do not touch optical components (lens, mirror, etc.) of the analysis block. If dirt or aberration has brought into existence, efficiency of

the projector may deteriorate.

**5. Take the PBS array out upward with its edges, then replace it.**

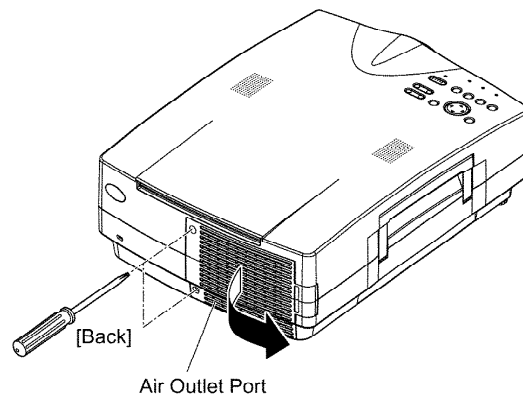


**Notes:**

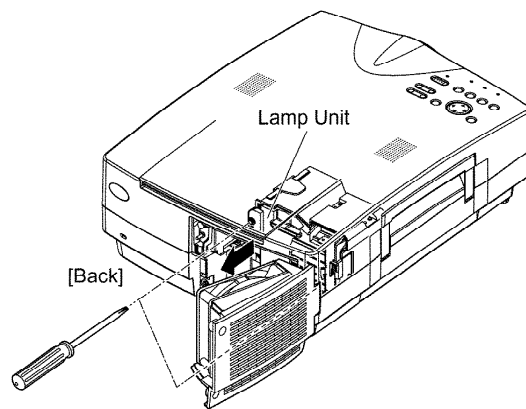
- When attaching a new PBS array, be careful not to mistake the direction.
- Work with care not to touch the surface of PBS Array. If not, efficiency of the projector may deteriorate.

## **8.16. Removal of lamp Unit**

**1. Loosen the 2 screws until they idle, open the air outlet port.**

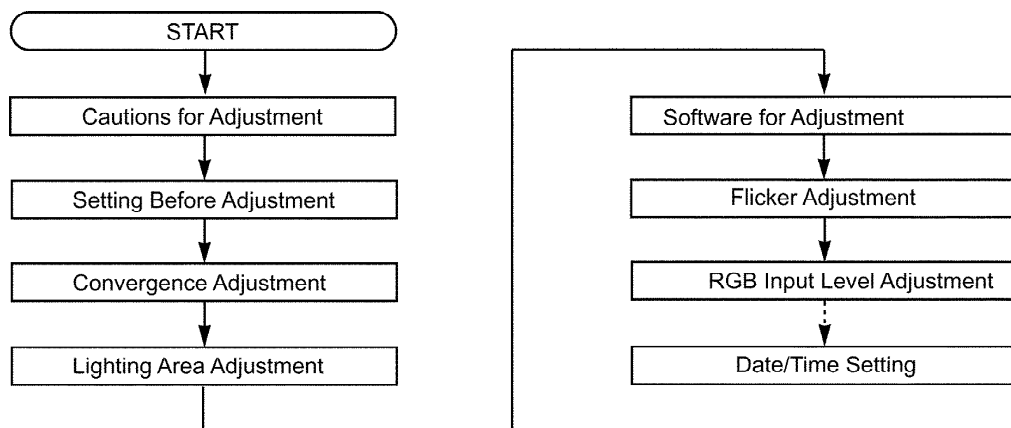


**2. Loosen the 2 screws until they idle and remove the lamp unit.**



## 9. Measurement and Adjustments

### 9.1. Adjustment Procedure Flowchart



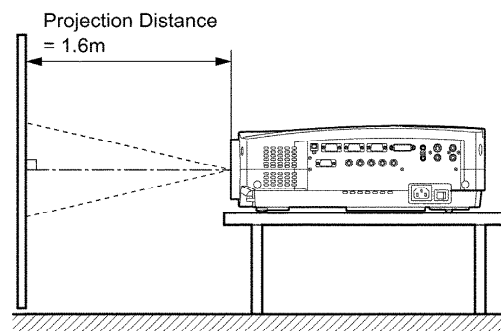
### 9.2. Cautions for Adjustment

- Never turn off the MAIN POWER switch until every fan completely stops.
- To maintain and ensure safety, always use the designated components for replacement parts.

- If removing any clamps, lead wires or connectors, always place them back in their proper locations.
- Be careful not to damage the lead wires or components when using a soldering iron or similar tool.

### 9.3. Setting Before Adjustment

- Set up the projector to obtain the projection distance below.
- Press the ZOOM +/- buttons of the projector to obtain the largest size of the projected image.



### 9.4. Convergence Adjustment

#### 9.4.1. Basic Adjustment Procedure

1. According to the section 8.11. "Replacement of LCD Panel", loosen the 3 screws fixing the LCD panel attachment and screw them temporarily just until the LCD panel can be shifted by your fingers.
2. Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws fixing the A-P.C.Board block as they are removed.
3. Connect the connectors from/to the A-P.C.Board.

Note:

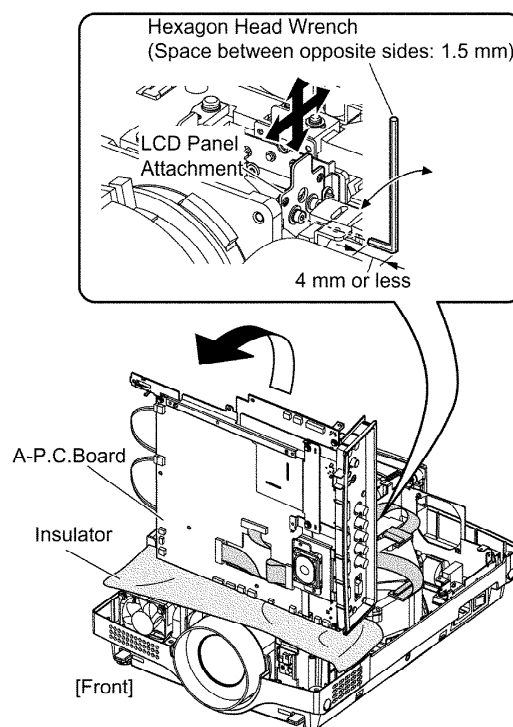
Use the service kit (see 9.5.1) for connections below.

- Each flexible cable of LCD panels (R/G/B) - Connectors (A1/A2/A3) on A-P.C.Board.
  - Connector of Exhaust Fan1 - Connector (A18) on A-P.C.Board.
  - Connector of Exhaust Fan2 - Connector (A19) on A-P.C.Board.
4. Covering with an insulator (cloth or the like) to prevent a short

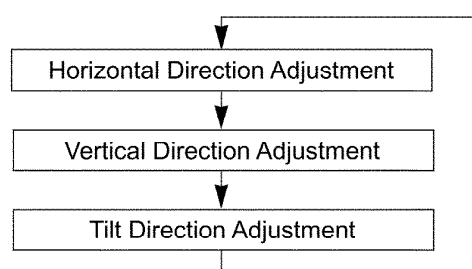
circuit, set the A-P.C.Board on the main unit.

**Note:**

Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.



**5. Repeat the following steps until the red, green and blue crosshatch patterns merge into a white pattern.**



**6. Reassemble the projector according to the steps 6 through 9 in the section 8.11. "Replacement of LCD Panel".**

#### **9.4.2. Adjustment after All LCD Panels or LCD Block Replacement**

- 1. Display the green crosshatch pattern and adjust the lens focus.**
- 2. Adjust the LCD panel (G) position to place the center position of**



- the crosshatch pattern to the center on the screen.
3. Correct the tilt of the green crosshatch pattern.
  4. Display the white crosshatch pattern.
  5. Adjust the LCD panels (R) and (B) to merge the red and blue patterns with the green.

#### **9.4.3. Adjustment after LCD Panel (G) Replacement**

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (G) to merge the green pattern with the red and blue ones.

#### **9.4.4. Adjustment after LCD Panel (R) Replacement**

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (R) to merge the green pattern with the green and blue ones.

#### **9.4.5. Adjustment after LCD Panel (B) Replacement**

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (B) to merge the green pattern with the green and red ones.

### **9.5. Lighting Area Adjustment**

#### **9.5.1. Tools to be used**

Service Kit (Part No. TZSH07016): This kit is composed of 3 extension flexible cables and 2 connector extension cable.

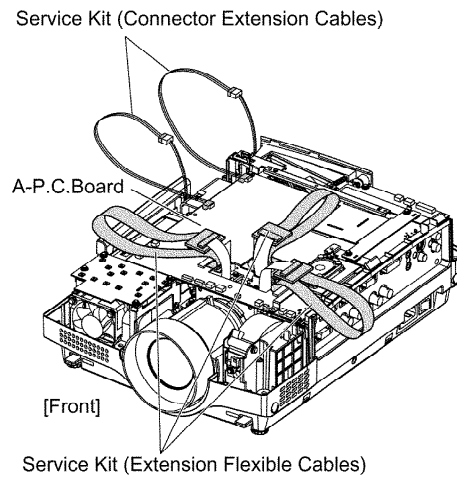
Note:

- Consult your dealer or Authorized Service Center for the service kit.

#### **9.5.2. Preparation**

1. Unscrew the 5 screws fixing the A-P.C.Board block according to the steps 1 through 4 in the section 8.5. "Removal of A-P.C.Board".
2. Connect the service kit (extension cables).
  - Each flexible cable of LCD Panels (R/G/B) - Connectors (A1/A2 /A3) on A-P.C.Board.
  - Connector of Exhaust Fan1 - Connector (A18) on A-P.C.Board.

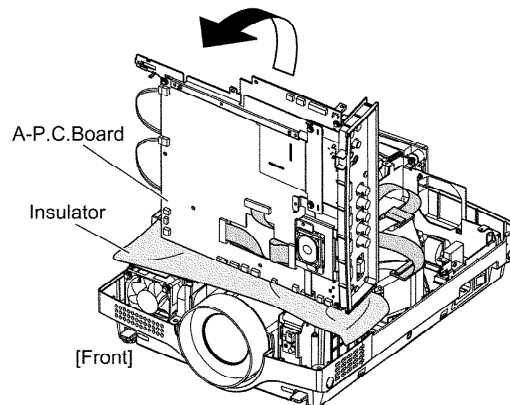
**- Connector of Exhaust Fan2 - Connector (A19) on A-P.C.Board.**



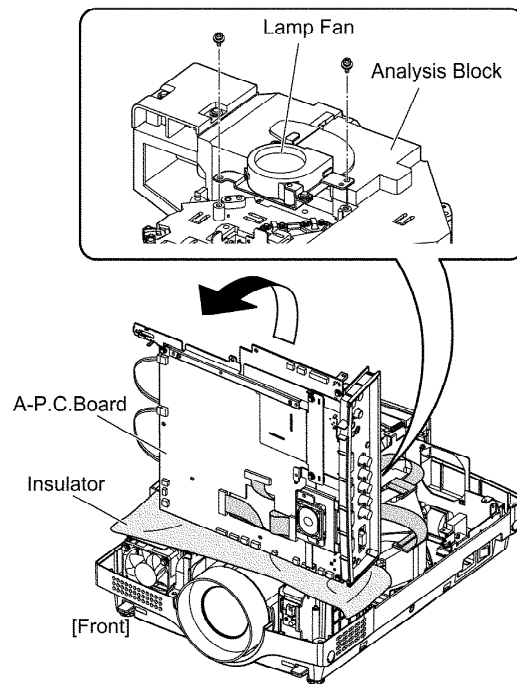
**3. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board on the main unit.**

**Note:**

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.**



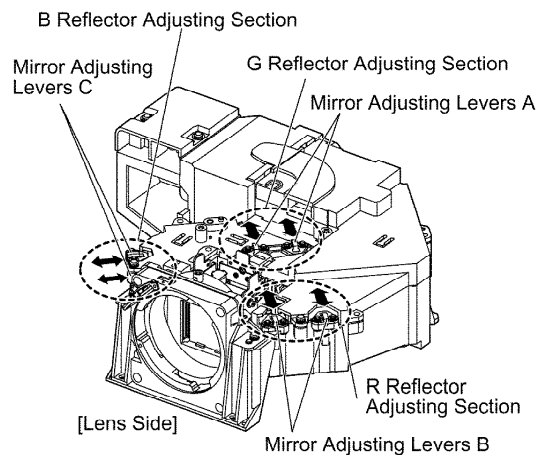
**4. Unscrew the 2 screws and remove the lamp fan.**



### 9.5.3. Adjustment Procedure

#### 9.5.3.1. Outline

- Shifting two mirror adjusting levers in the same direction, adjust color unevenness on the screen upper/lower sides.
- Shifting two mirror adjusting levers in opposite directions, adjust color unevenness on the screen right/left sides.



#### 9.5.3.2. G Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen each 2 screws fixing the 2 mirror adjusting levers A just until the lever can be shifted.
3. Adjust the mirror adjusting levers A positions to minimize color

unevenness on the screen by shifting the levers in arrow directions.

#### **4. Tighten each screw.**

##### **9.5.3.3. R Reflector Adjustment**

- 1. Turn on the power and display 100 % white pattern on the screen.**
- 2. Loosen each 2 screw fixing the 2 mirror adjusting levers B just until the lever can be shifted.**
- 3. Adjust the mirror adjusting levers B positions to minimize color unevenness on the screen by shifting the levers in arrow directions.**
- 4. Tighten each screw.**

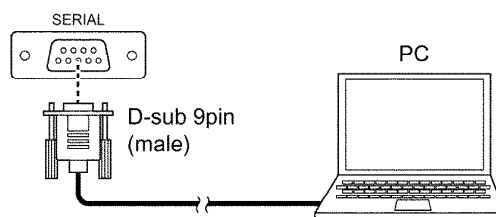
##### **9.5.3.4. B Reflector Adjustment**

- 1. Turn on the power and display 100 % white pattern on the screen.**
- 2. Loosen each 2 screw fixing the 2 mirror adjusting levers C just until the lever can be shifted.**
- 3. Adjust the mirror adjusting levers C positions to minimize color unevenness on the screen by shifting the levers in arrow directions.**
- 4. Tighten each screw.**

## **9.6. Software for Adjustment**

### **9.6.1. Outline**

- This projector needs computer-aided adjustments.**
- After the software adjustments, this projector must be turned off and on again to memorize the settings.**
- Connect the cable between the projector and a PC as shown below.**
- Updating the software will change the version number.**



### 9.6.2. Operating Procedure

1. Run software program by the keyboard entry.

Note:

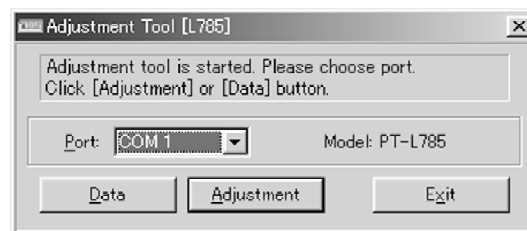
- Use the software program as below.

Adjustment Tool [L785]

2. The first menu is Port selection menu.

3. Adjust the projector by selecting the necessary item from the menu in each stage.

### 9.6.3. Port Name Selection Menu



Select Port with the select box and click "Data" or "Adjustment".

#### 9.6.3.1. Explanation of Buttons

Data:

Displays the data transmission/reception menu.

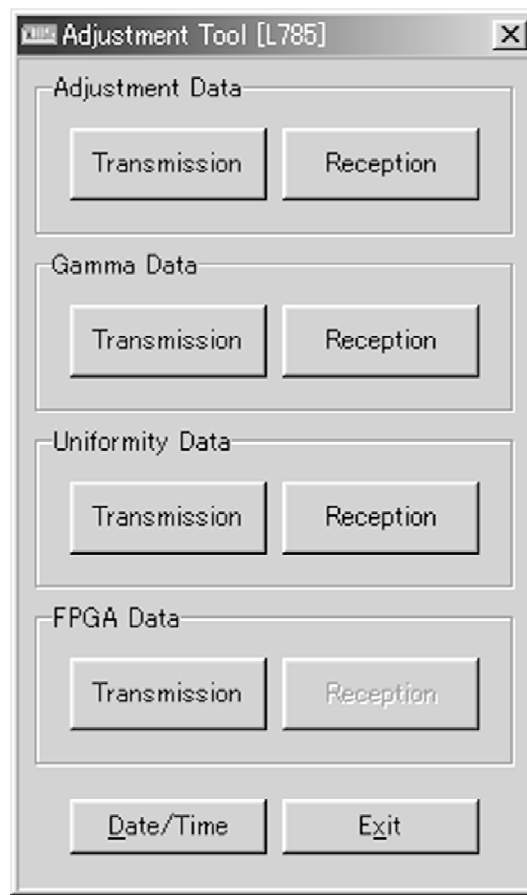
Adjustment:

Displays the adjustment menu.

Exit:

Exits this application.

### 9.6.4. Data Transmission / Reception Menu



#### 9.6.4.1. Explanation of Buttons

**Adjustment Data Transmission:**

Reads the adjustment data from the file and transmits it to the projector.

**Adjustment Data Reception:**

Receives the adjustment data from the projector and writes it in the file.

**Gamma Data Transmission:**

Reads the gamma data from the file and transmits it to the projector.

**Gamma Data Reception:**

Receives the gamma data from the projector and writes it in the file.

**Uniformity Data Transmission:**

Reads the color unevenness correction data from the file and transmits it to the projector.

**Uniformity Data Reception:**

Receives the color unevenness correction data from the projector and writes it in the file.

**FPGA Data Transmission:**

Transmission only, just for update of FPGA.

**Data/Time**

Displays the date/time setting menu.

**Exit:**

Exits this application.

9.6.4.2. Receiving and sending of the data

Click a target button and specify a file name.

### 9.6.5. Adjustment Menu



#### 9.6.5.1. Explanation of Buttons

**Flicker Adjustment:**

Displays the flicker adjustment menu.

**Input Level Adjustment RGB**

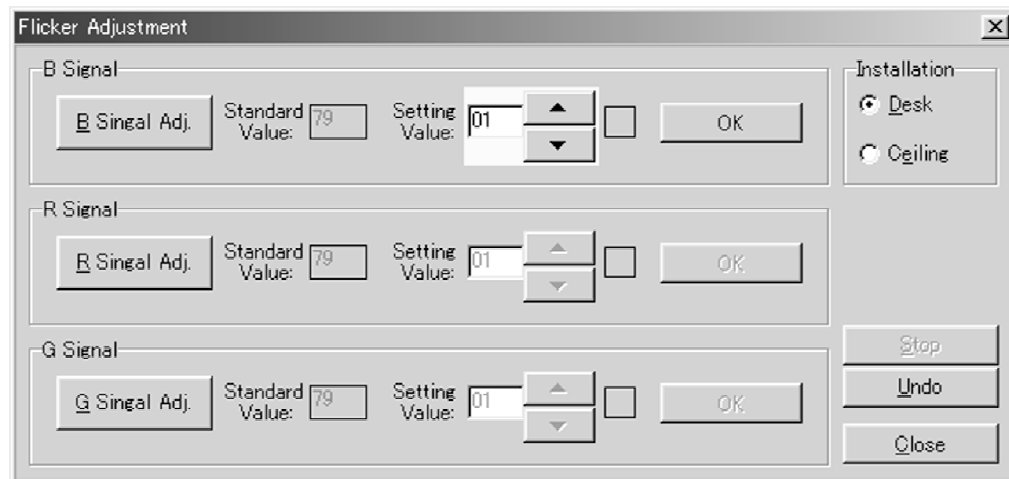
Displays the input level adjustment (RGB) menu.

**Exit:**

Exits this application.

## 9.7. Flicker Adjustment

### 9.7.1. Adjustment Menu



### 9.7.2. Explanation of Buttons

#### Desk:

Sets the installation mode to the desk setting and receive the current data.

#### Ceiling:

Sets the installation mode to the ceiling setting and receive the current data.

#### B Signal Adj.:

Sets the test signal mode to the B-signal and allows the "▲", "▼" and "OK" buttons of the B-signal to becomes active.

#### R Signal Adj.:

Sets the test signal mode to the R-signal and allows the "▲", "▼" and "OK" buttons of the R-signal to becomes active.

#### G Signal Adj.:

Sets the test signal mode to the G-signal and allows the "▲", "▼" and "OK" buttons of the G-signal to becomes active.



Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is



transmitted once. The variable setting value is enclosed in a box and using the TAB or SPACE key allows the move of the box.

**OK:**

Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER key changes the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8 or 2 key, its color returns to black.

**Stop:**

Discontinues the communication. (This button is usually set for its inactive mode.)

**Undo:**

Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

**Close:**

Closes this menu.

### **9.7.3. Equipment to be used**

PC, Software for Adjustment

### **9.7.4. Adjustment Procedure**

- 1. Display the flicker adjustment menu.**
- 2. Set the installation mode to the desk setting.**
- 3. Click "B Signal Adj." and the blue flicker adjustment pattern will be displayed.**
- 4. Minimize the flicker while observing the projected pattern.**
- 5. Click "R Signal Adj." and the red flicker adjustment pattern will be displayed.**
- 6. Minimize the flicker while observing the projected pattern.**
- 7. Click "G Signal Adj." and the green flicker adjustment pattern will be displayed.**
- 8. Minimize the flicker while observing the projected pattern.**
- 9. Change the installation mode to the ceiling setting and follow**

**steps 3 to 8 inclusive.**

## **9.8. RGB Input Level Adjustment**

### **9.8.1. Adjustment Menu**



### **9.8.2. Explanation of Buttons**

**OK:**

Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

**Cancel:**

Cancels this menu.

### **9.8.3. Equipment to be used**

PC, RGB Signal Generator, Software for Adjustment

### **9.8.4. Adjustment Procedure**

- 1. Display the input level adjustment (RGB) menu.**
- 2. Input a window pattern signal to RGB1 IN connector.**

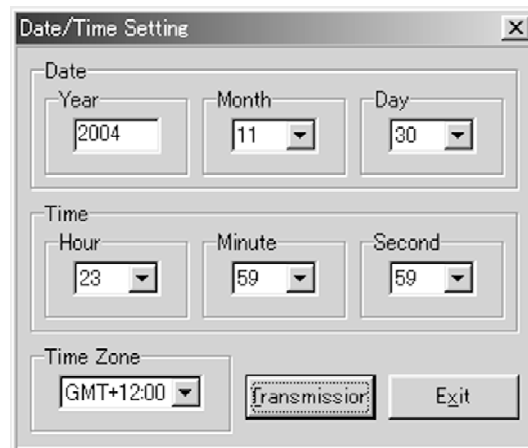
**Note:**

- Use approx. 15 % window pattern as follows.**  
Black background (screen width) : White window width = 2 : 1  
Black background (screen height) : White window height = 3 : 1
- Use the window pattern of XGA (1 024×768).**

- 3. Click the OK button.**

## **9.9. Date / Time Setting**

### **9.9.1. Setting Menu**



### 9.9.2. Explanation of Buttons

**Transmission:**

Transmits the date/time setting values to the projector.

**Exit:**

Exits this application.

### 9.9.3. Setting Procedure

1. Display the date/time setting menu.
2. Confirm or correct (by the keyboard entry) the Year.
3. Confirm or correct (with the select box) the Month/Day/Hour/Minute/Second.
4. Select the Time Zone with the select box.
5. Click the Transmission button.

## 10. Troubleshooting

The letters in the left of the inspection items indicate the P.C.Boards or Modules related to their respective descriptions.

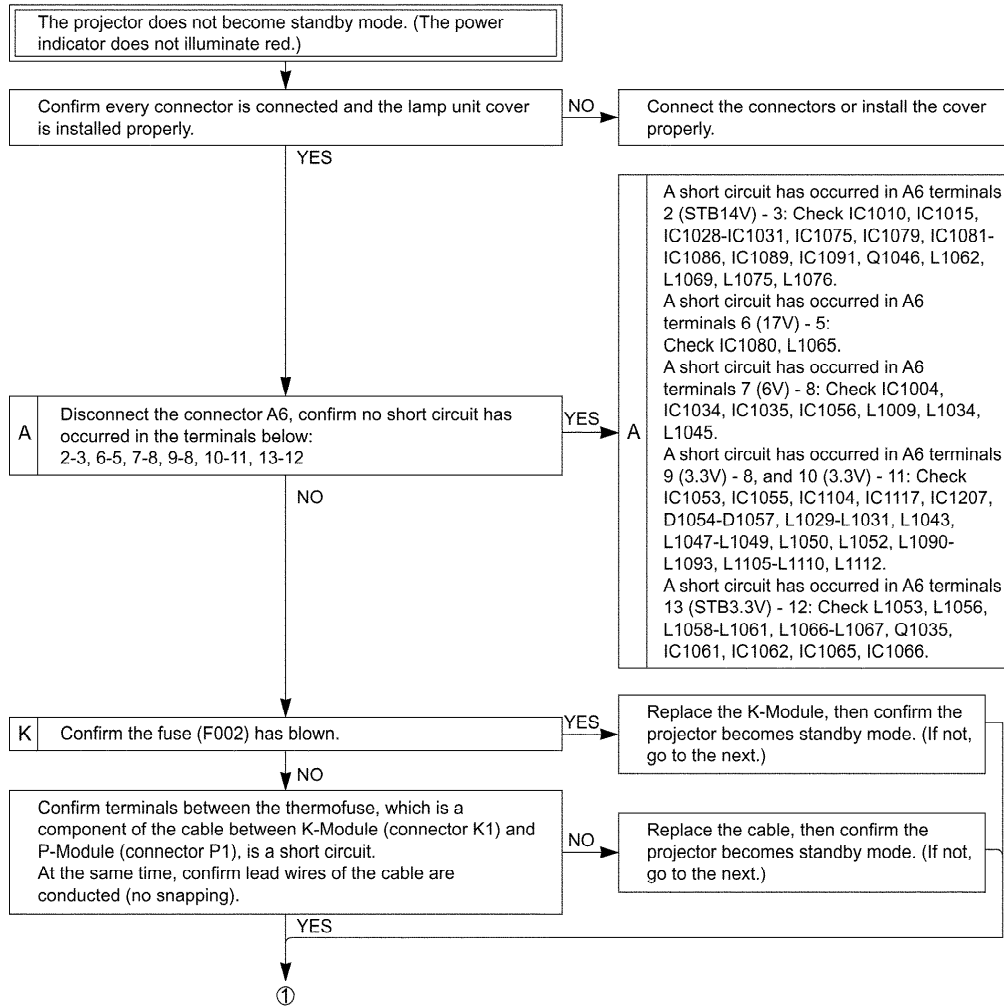
Note: (A)

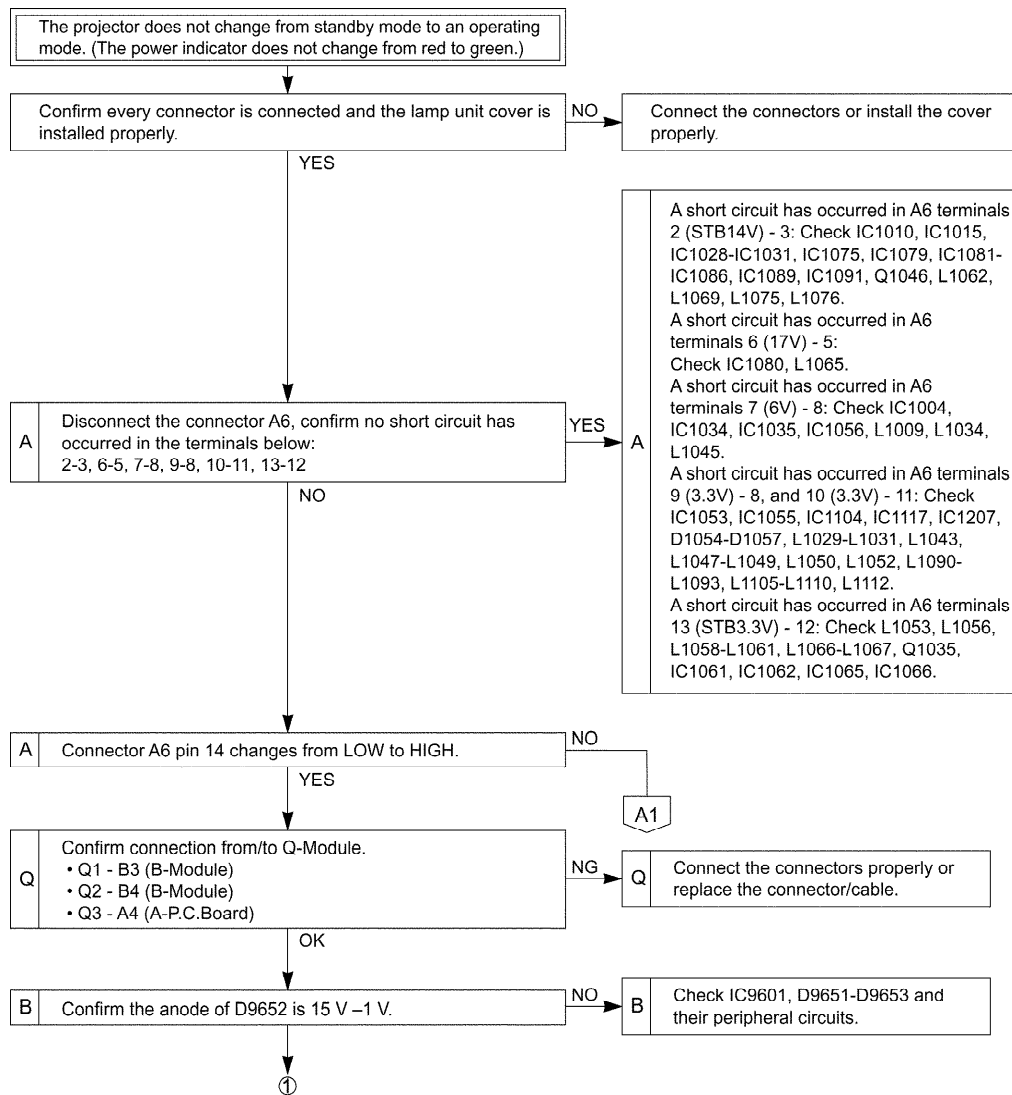
The letter of the alphabet indicates the P.C. Board or Module name.

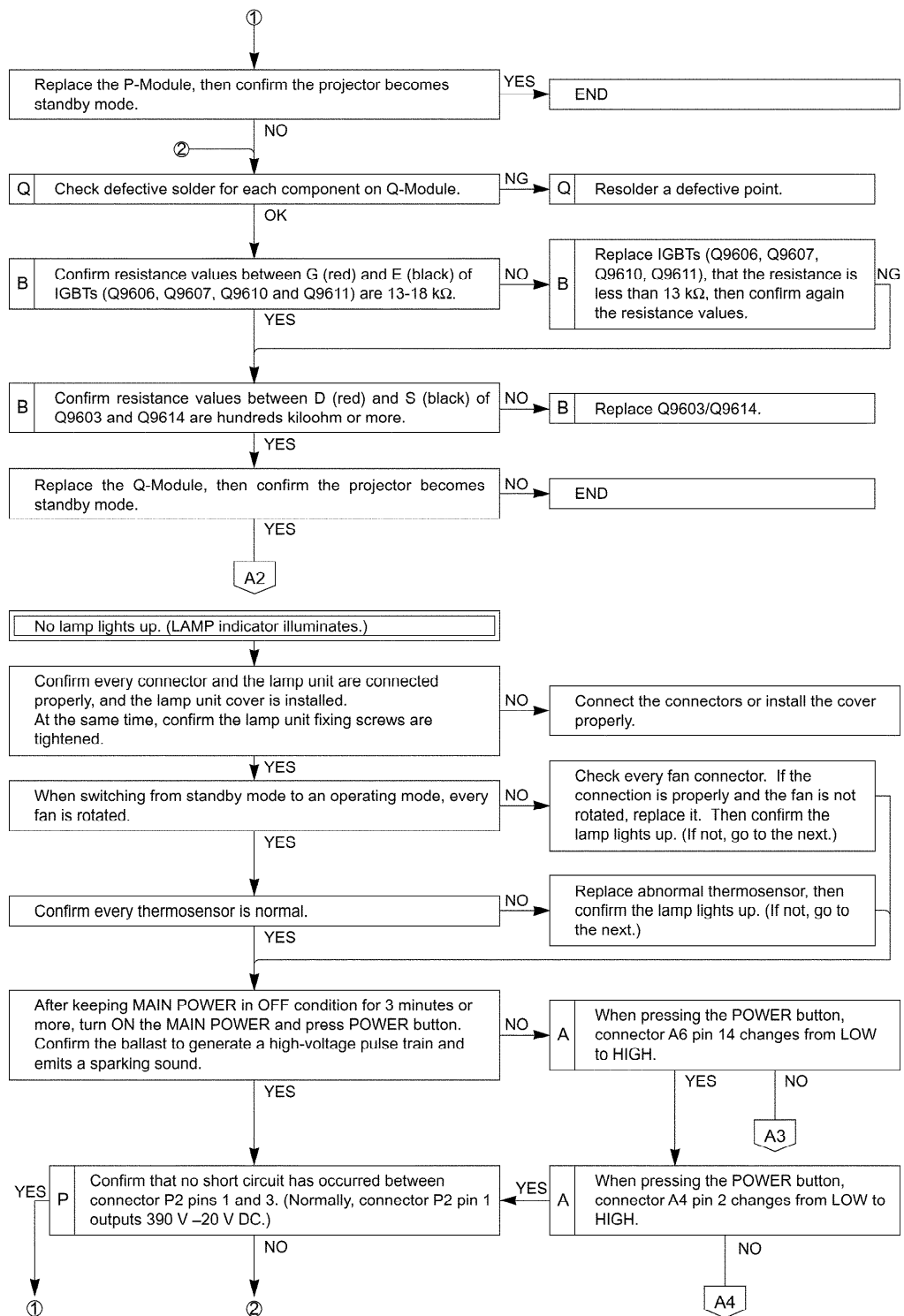
(Example) A: A-P.C.Board, B: B-Module

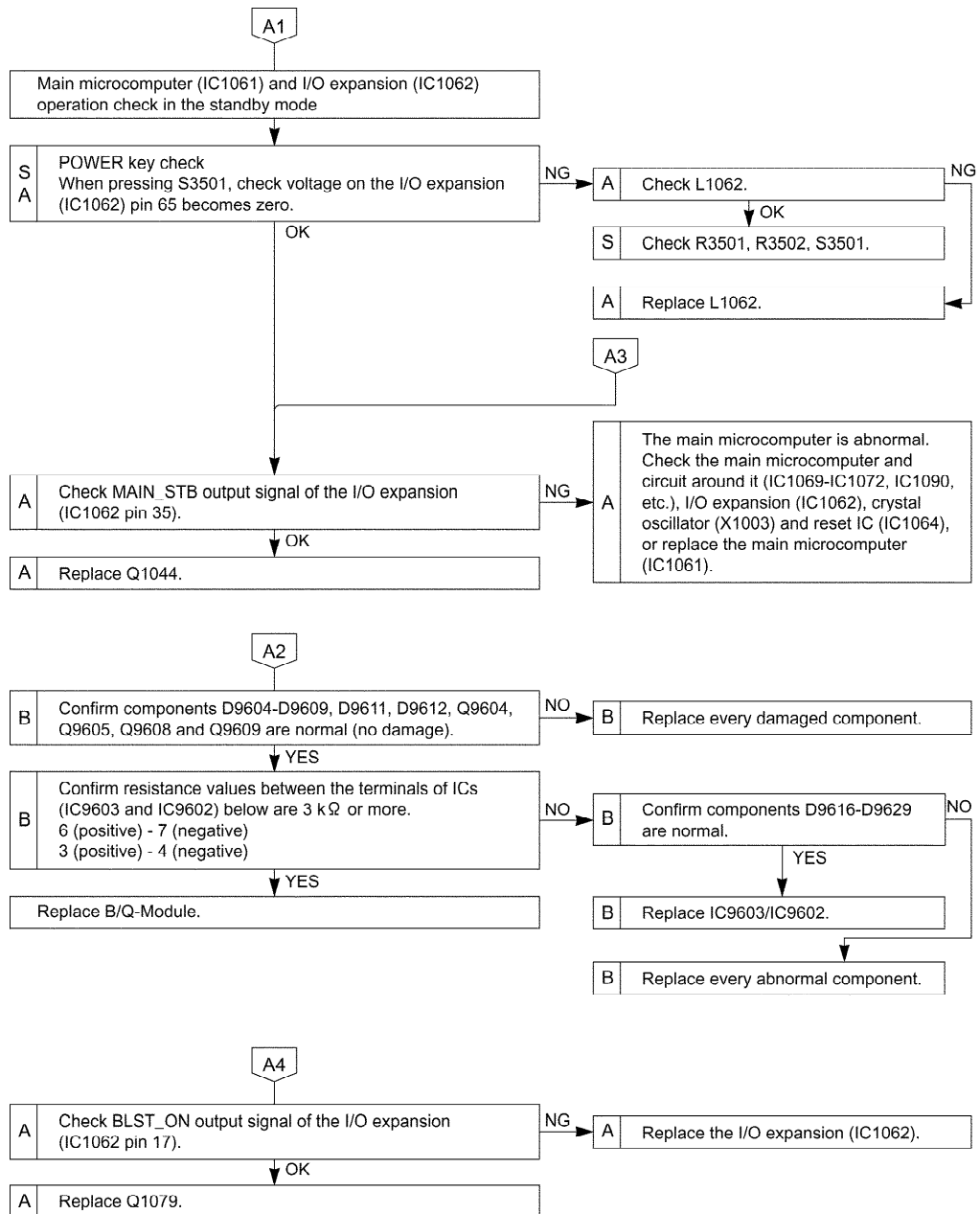
If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 9.6. "Software for Adjustment". At this time, if the readout from the old P.C.Board does not succeed, remove IC1063 and IC1073 from the old P.C.Board and install them on the new one.

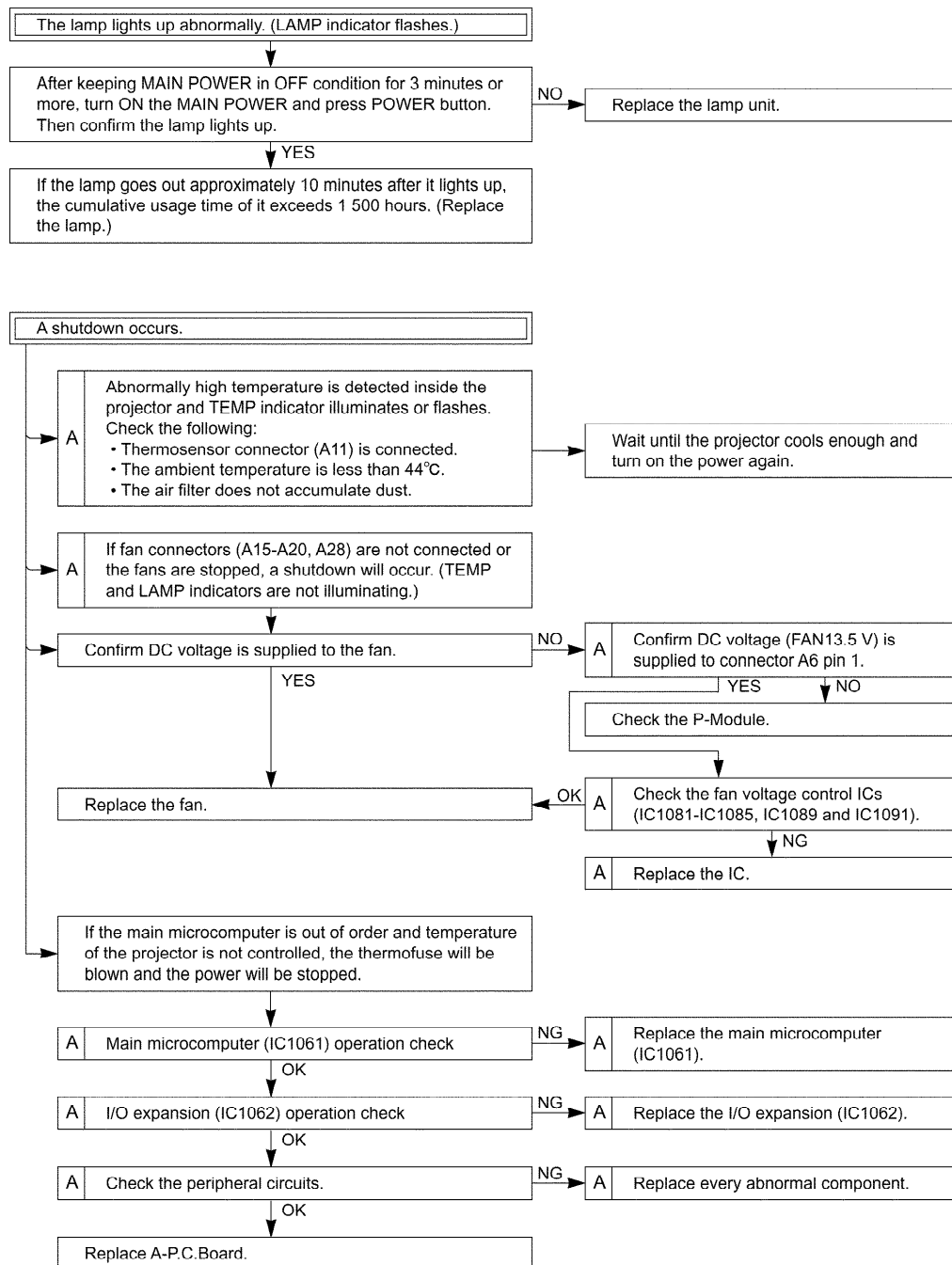
If replacing A-P.C.Board (assembly), adjust RGB Input Level according to the chapter 9.8. "RGB Input Level Adjustment". Lithium battery is used in the A-P.C.Board. It is necessary to replace the battery if it is empty. The replacement time of the battery can be confirmed by "Self Check Display" (see 3.2.). Execute "Date/Time Setting" if replacing the battery (see 9.9.).



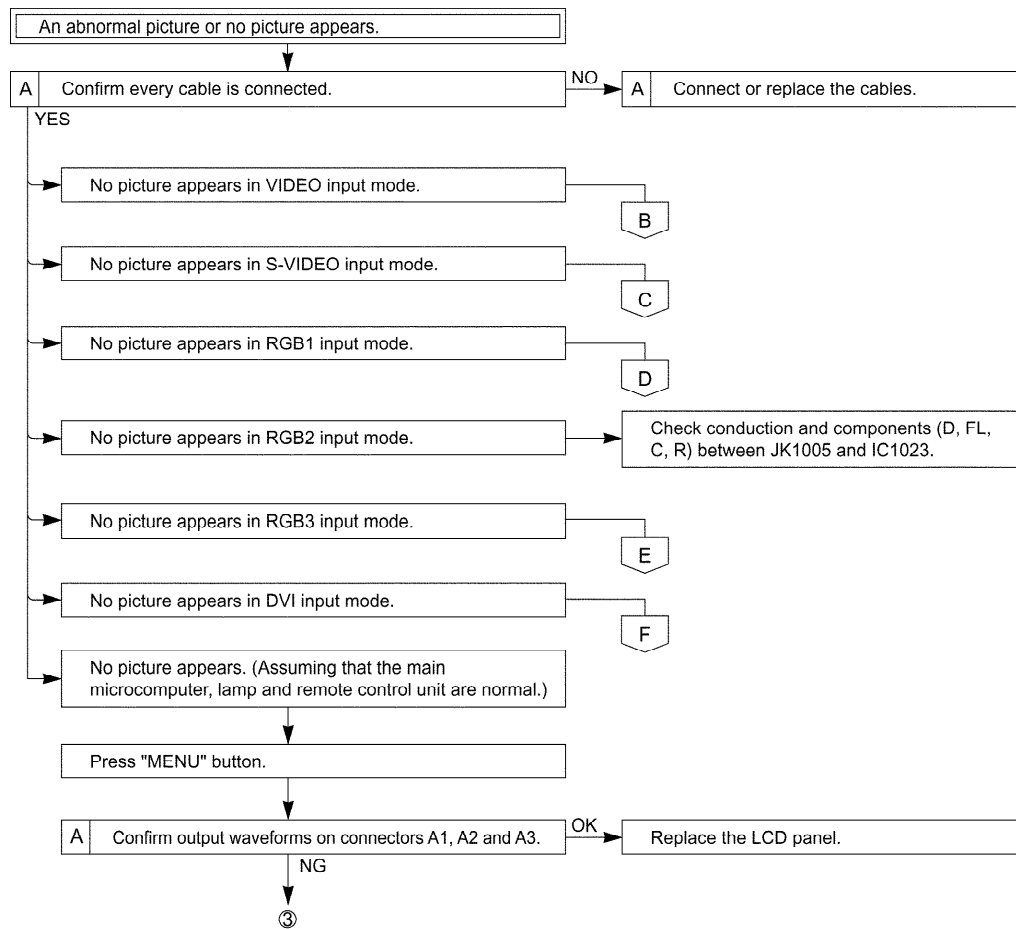


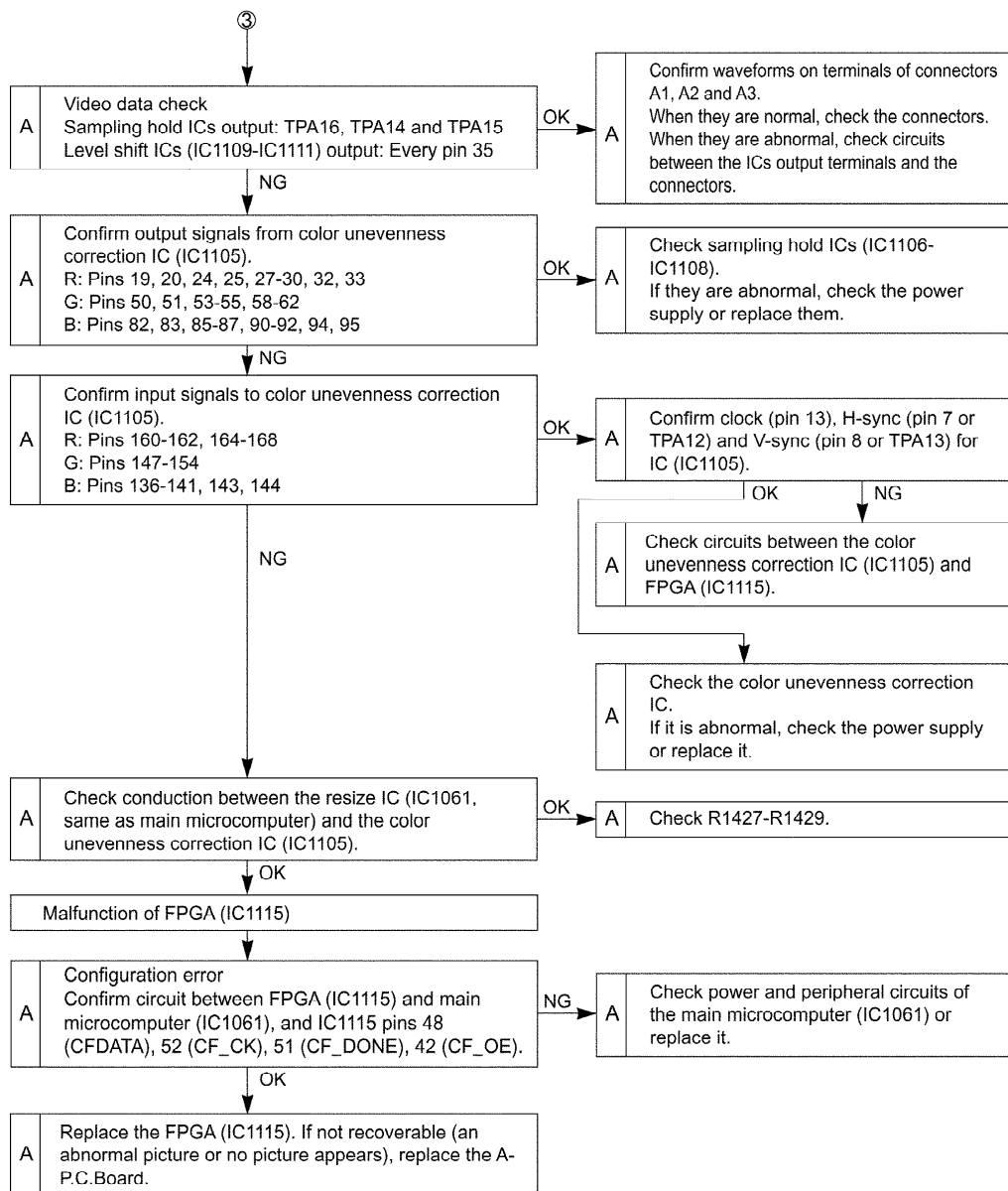


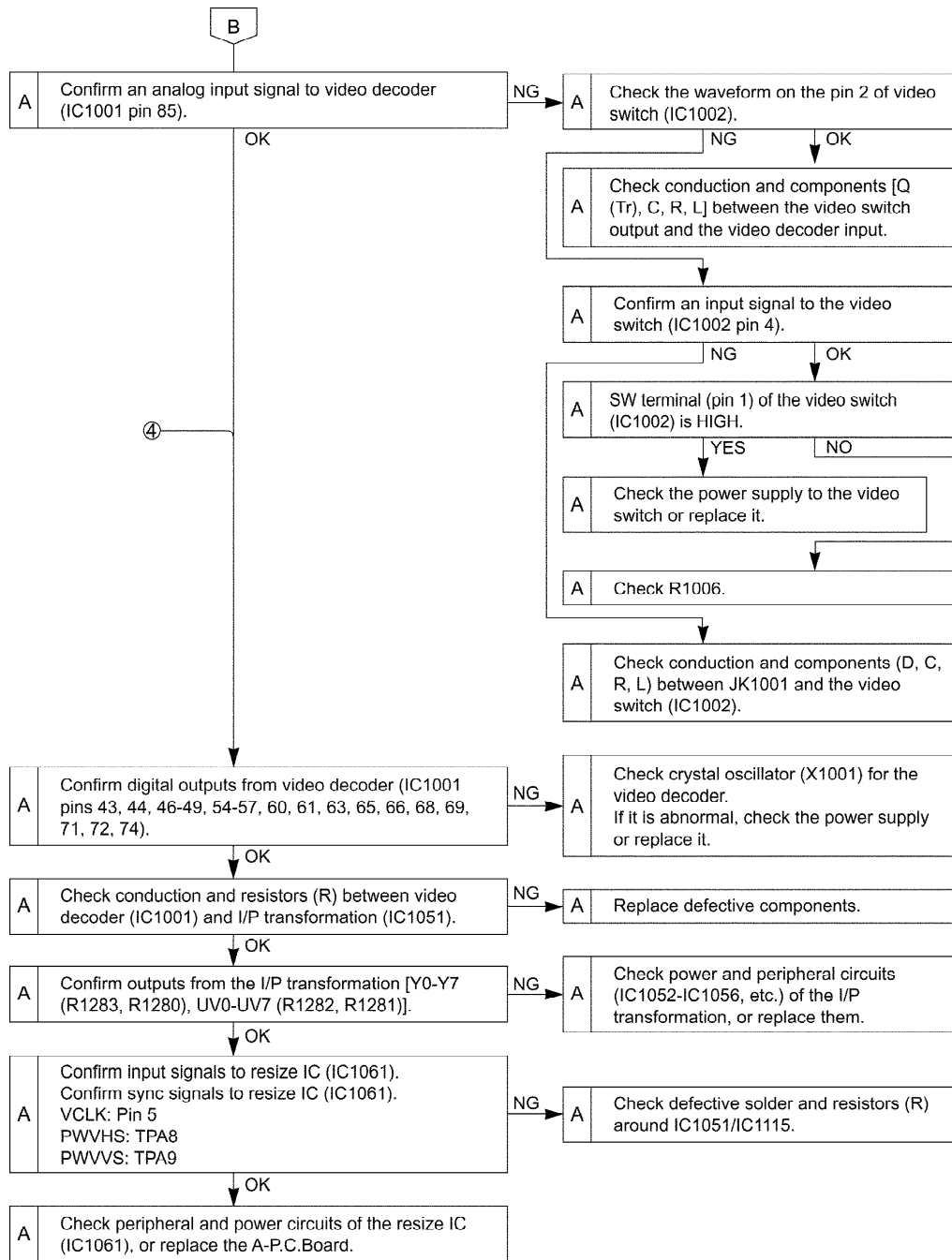


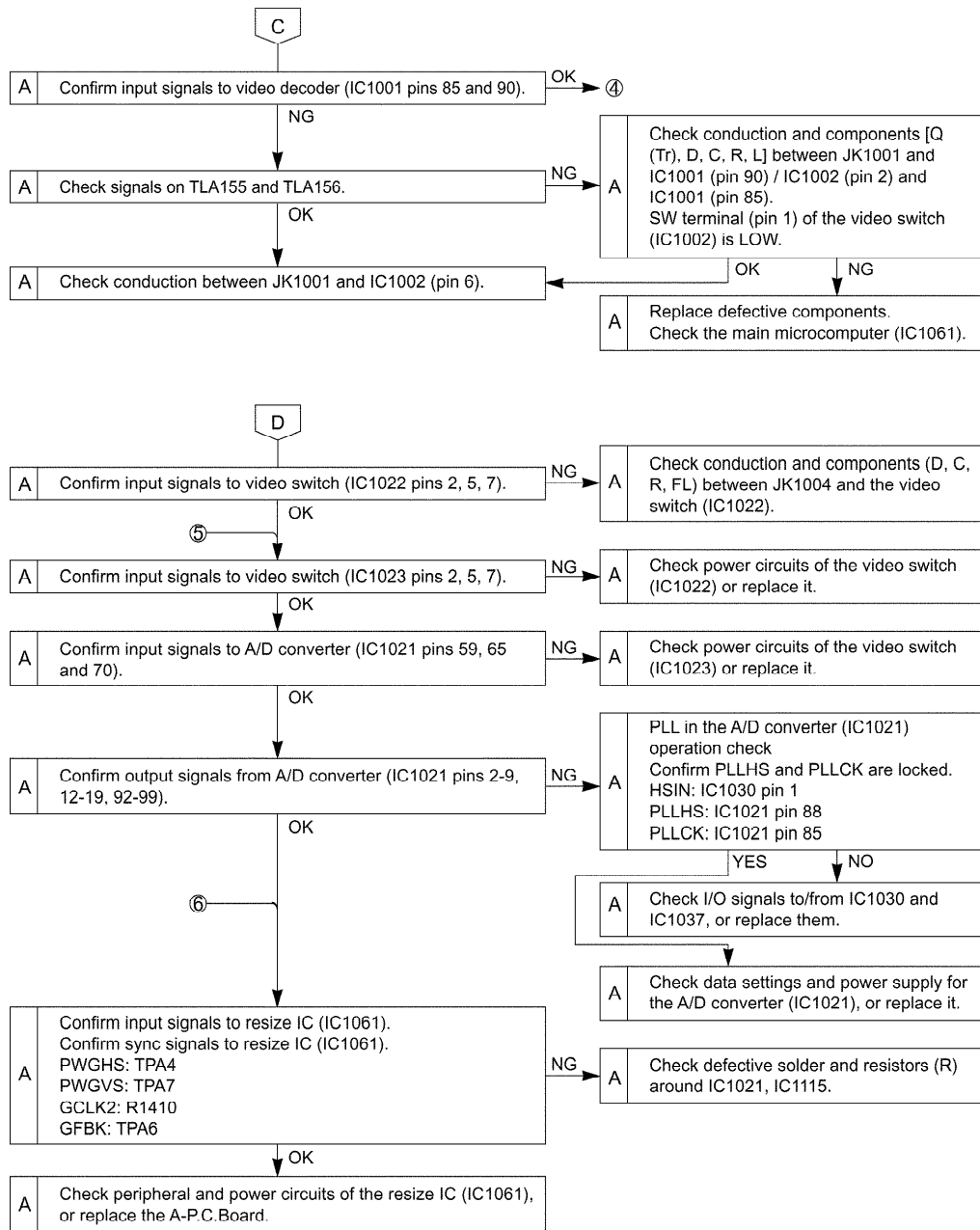


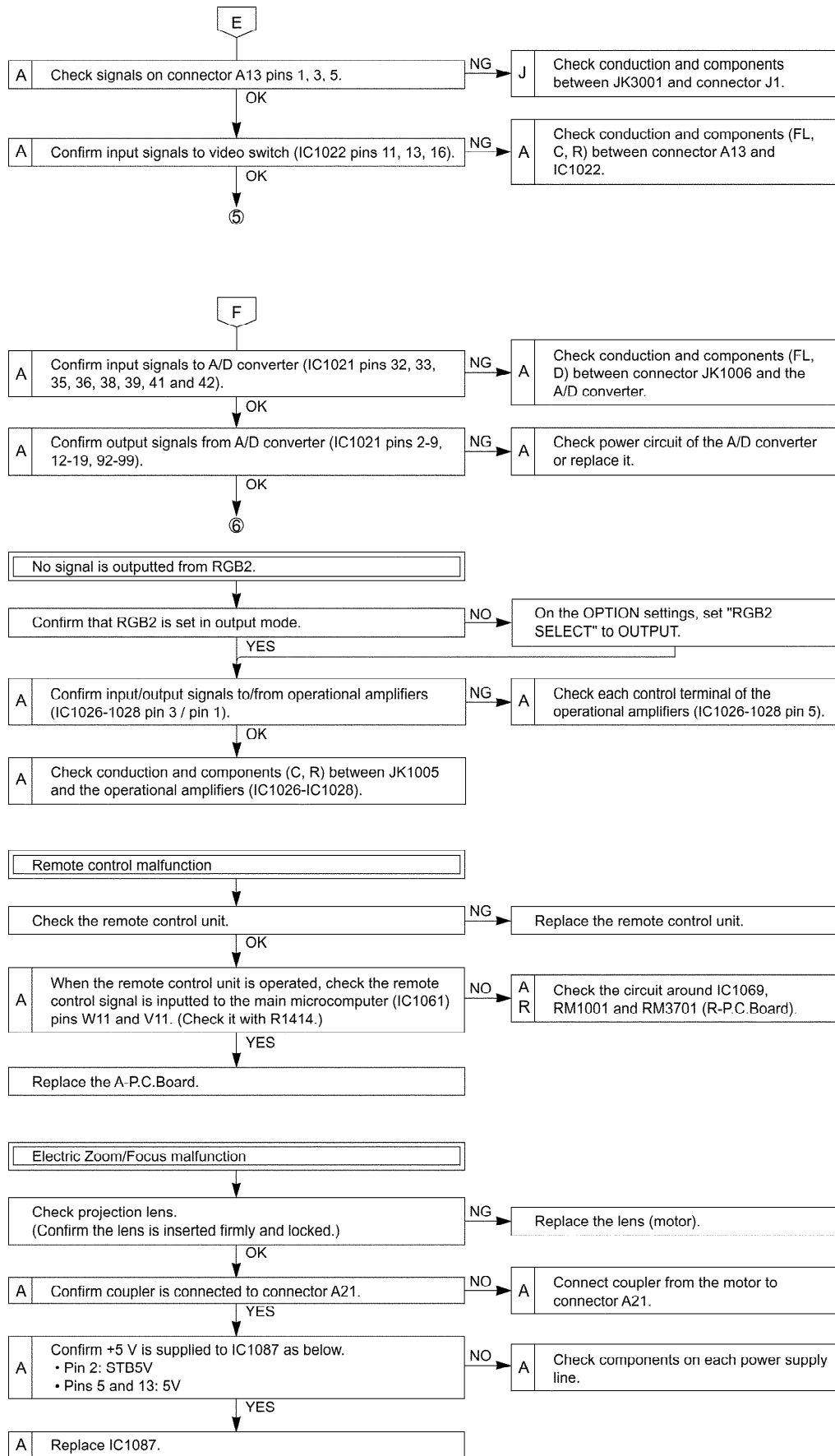


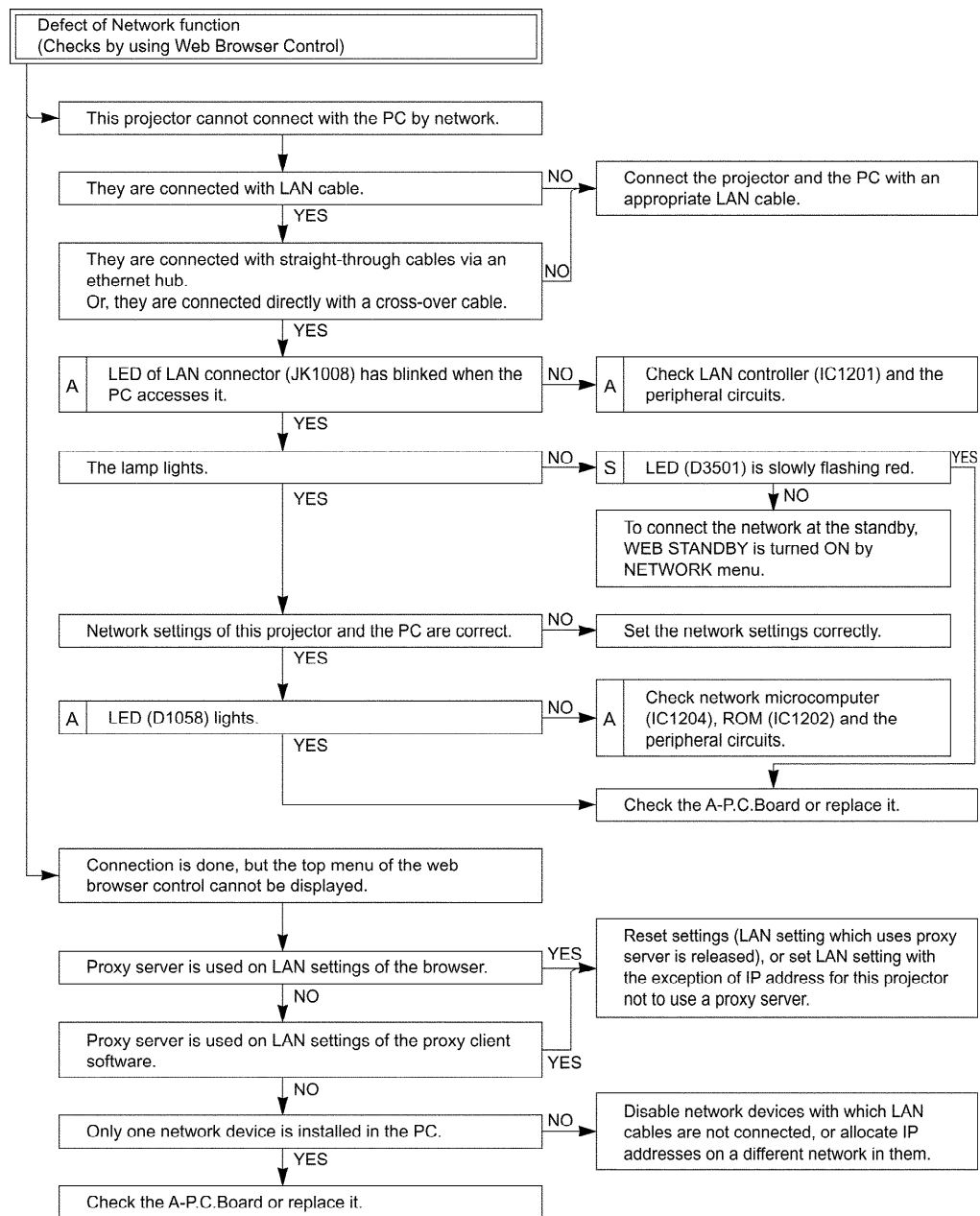












## 11. Interconnection Block Diagram

### 11.1. Interconnection Block Diagram (1 / 2)

### 11.2. Interconnection Block Diagram (2 / 2)

## 12. Block Diagram

### 12.1. Power Supply

### 12.2. Signal Processing (1 / 3)

### 12.3. Signal Processing (2 / 3)

#### **12.4. Signal Processing (3 / 3)**

### **13. Schematic Diagram**







**13.1. A-P.C.Board (1 / 8)**

**13.2. A-P.C.Board (2 / 8)**

**13.3. A-P.C.Board (3 / 8)**

**13.4. A-P.C.Board (4 / 8)**

**13.5. A-P.C.Board (5 / 8)**

**13.6. A-P.C.Board (6 / 8)**

**13.7. A-P.C.Board (7 / 8)**

**13.8. A-P.C.Board(8 / 8)**

**13.9. B-Module (1 / 2)**

**13.10. B-Module (2 / 2)**

**13.11. J-P.C.Board, S-P.C.Board**

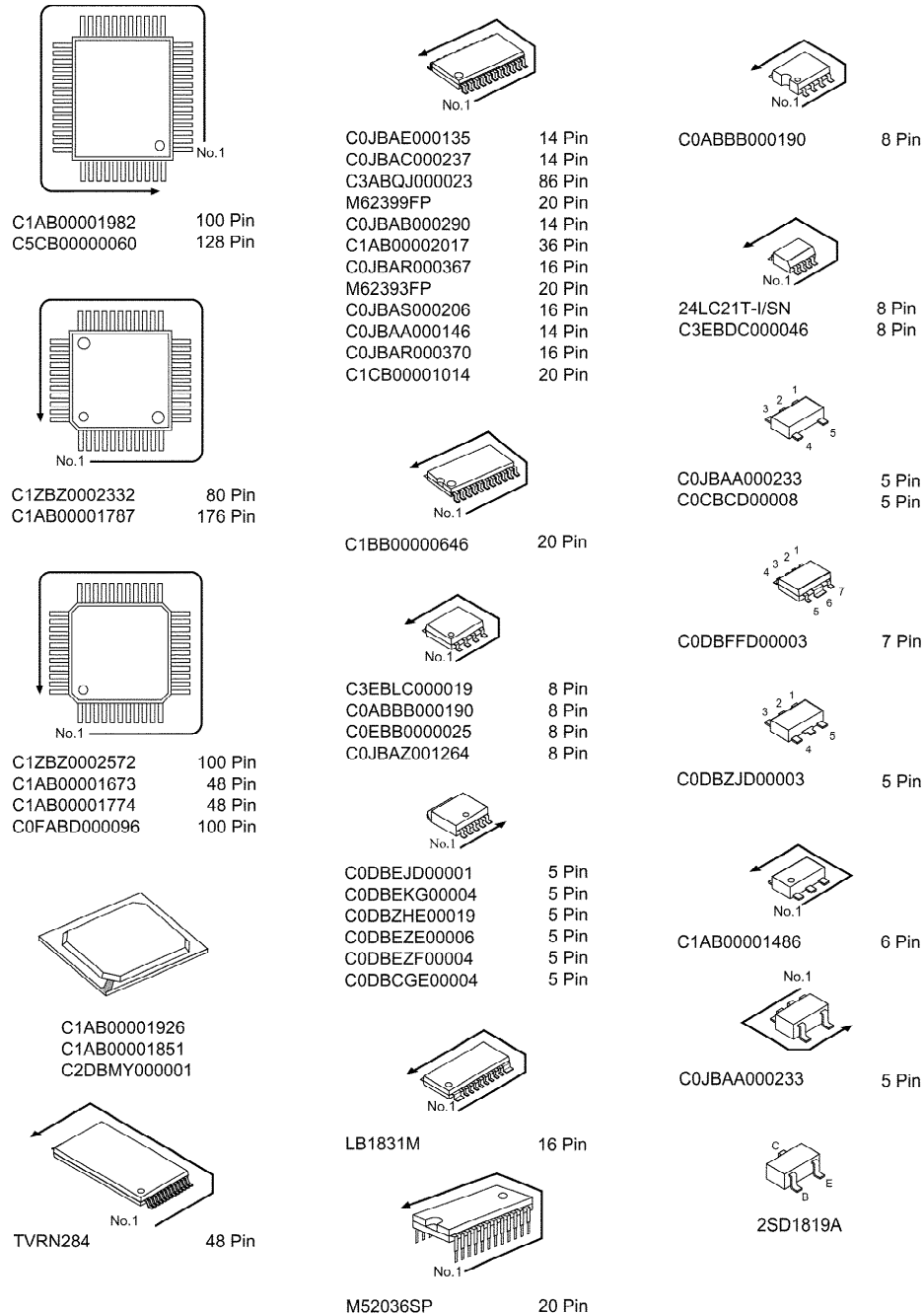
## **14. Circuit Boards**

**14.1. A-P.CBoard (Foil Side)**

## 14.2. A-P.CBoard (Component Side)

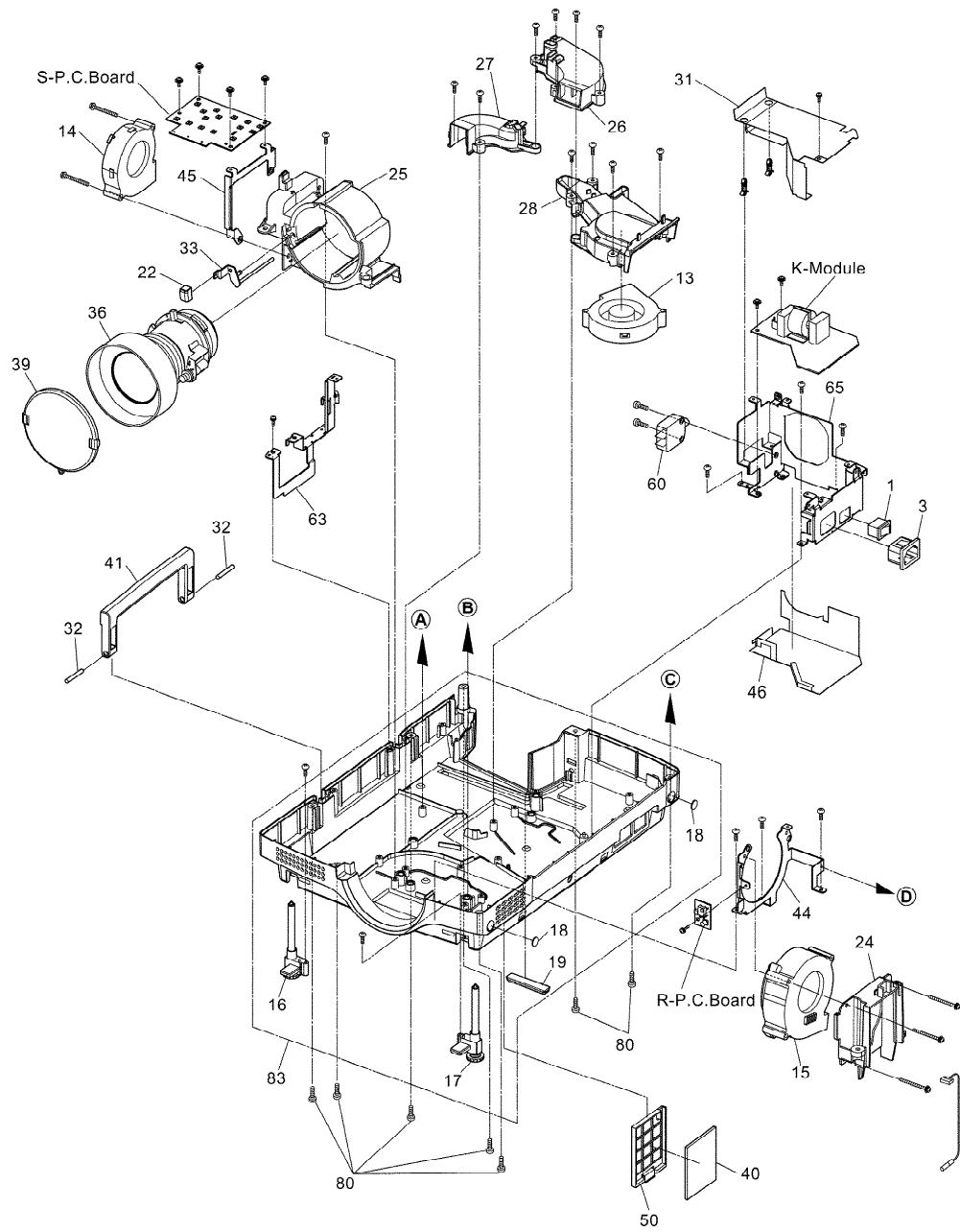
## 14.3. J-P.C.Board / S-P.C.Board

# 15. Terminal guide of ICs and transistors

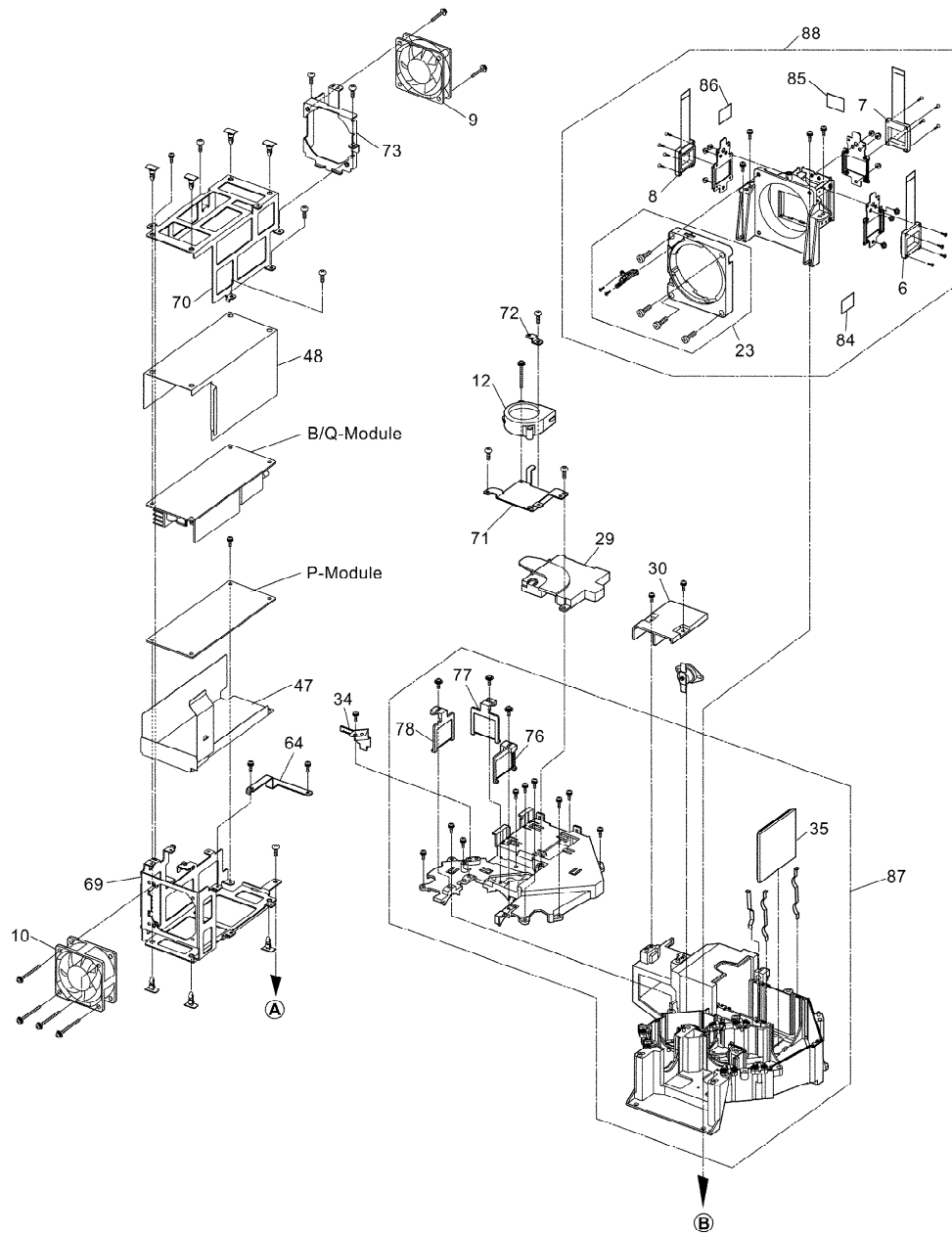


## 16. Exploded Views

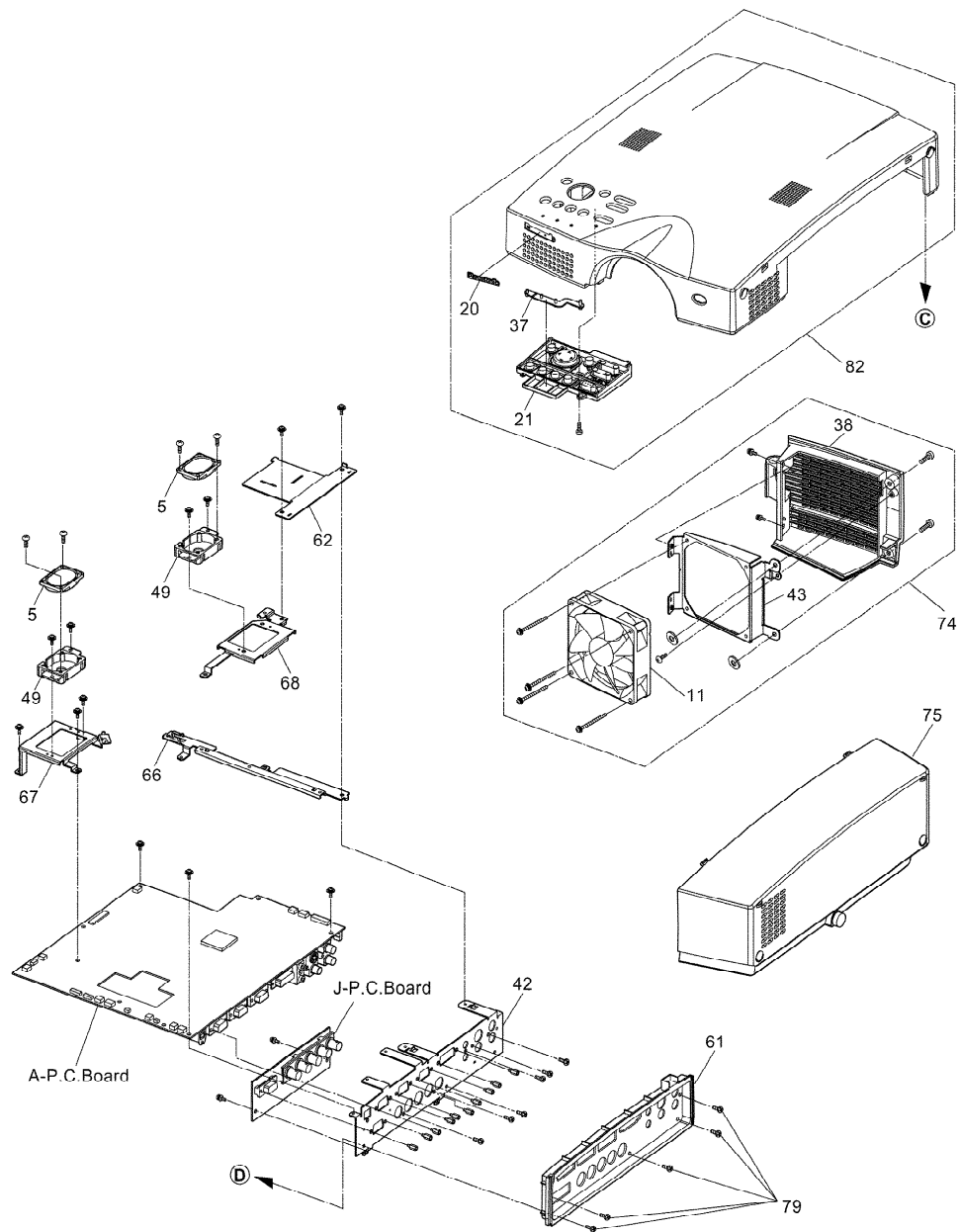
## Exploded Views (1/4)



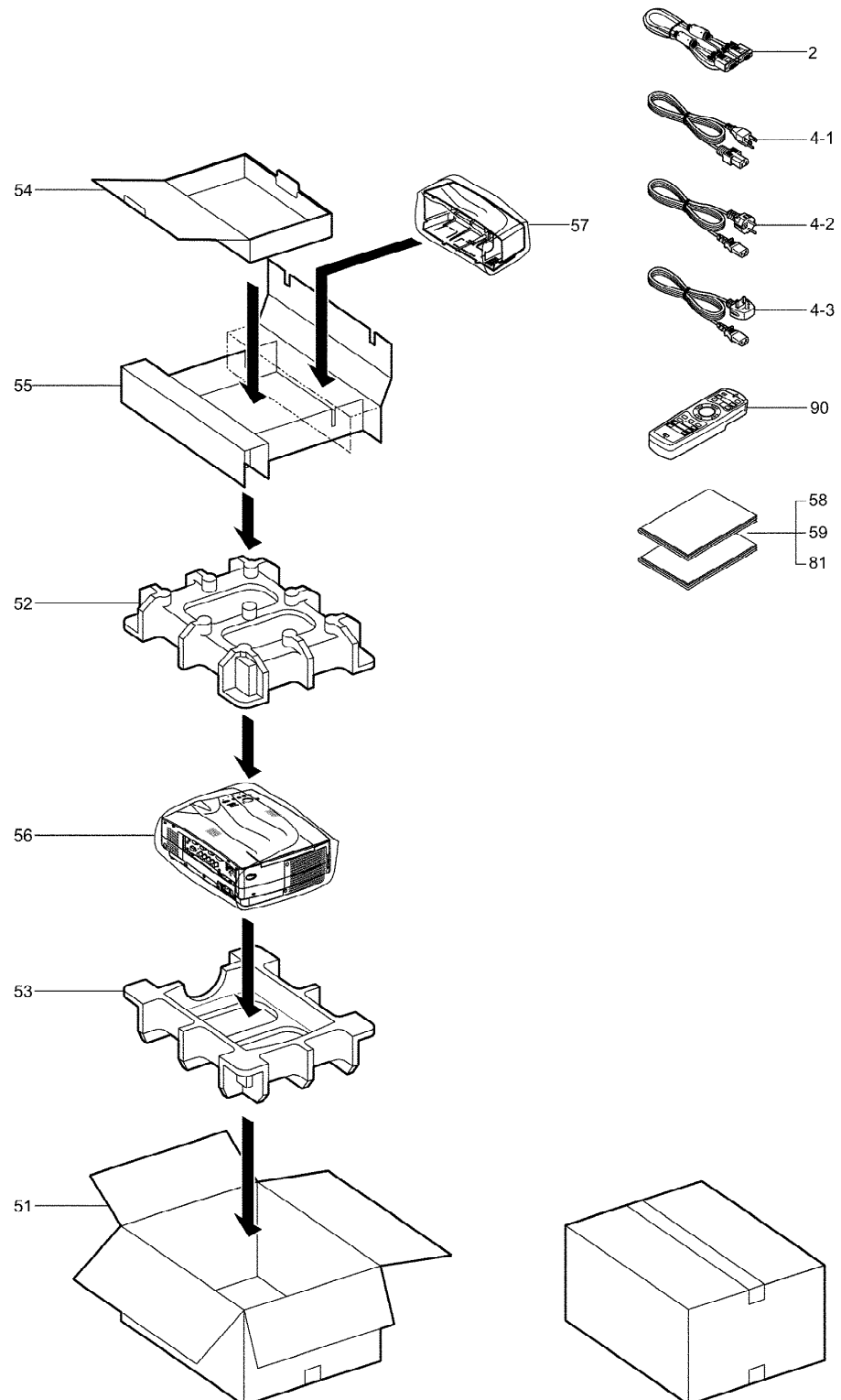
## Exploded Views (2/4)



## Exploded Views (3/4)




## Exploded Views (4/4)



## 17. Replacement Parts List

### Important Safety Notice

Components identified by the International symbol  have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified parts.

#### Abbreviation of part name and description

##### 1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE	ALLOWANCE
C : Carbon	F : - 1 %
F : Fuse	G : - 2 %
M : Metal Oxide	J : - 5 %
Metal Film	K : -10%
S : Solid	M : -20%
W : Wire Wound	

##### 2. Capacitor















Example:

ECKF1H103ZF C 0.01PF, Z, 50V


TYPE	ALLOWANCE
C : Ceramic	C : -0.25 pF
E : Electrolytic	D : -0.5 pF
P : Polyester	F : - 1 pF
PP : Polypropylene	J : - 5 %
S : Polystyrol	K : -10 %
T : Tantalum	L : -15 %
	M : -20 %
	P : +100 %, -0 %
	Z : +80 %, -20 %

#### Notes:







Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

Ref. No.	Part No.	Part Name & Description	Remarks
<b>[MECHANICAL PARTS]</b>			
<u>1</u>	AJ7241B	POWER SWITCH	
	D4CDH5030001	THERMISTER	
	J0KG00000052	CORE	
<u>2</u>	K1HB15FA0001	VGA CABLE	
<u>3</u>	K2AH3B000016	AC INLET	
<u>4-1</u>	K2CG3FZ00008	POWER CORD	 PT-L785U
<u>4-2</u>	K2CM3FZ00001	POWER CORD(EUROPE)	 PT-L785E
<u>4-3</u>	K2CT3FZ00001	POWER CORD(U.K)	 PT-L785E
<u>5</u>	L0AA04C00003	SPEAKER	
<u>6</u>	L5BDAXQ00182	LIQUID CRYSTAL / DISPLAY(R)	
<u>7</u>	L5BDAXQ00183	LIQUID CRYSTAL / DISPLAY(G)	
<u>8</u>	L5BDAXQ00184	LIQUID CRYSTAL / DISPLAY(B)	
<u>9</u>	L6FAKCEH0008	POWER VENTILATION FAN	
<u>10</u>	L6FAKEEH0007	POWER FAN	
<u>11</u>	L6FAMEGH0015	VENTILATION FAN / (LAMP COVER)	
<u>12</u>	L6FCHC9H0003	LAMP FAN	
<u>13</u>	L6FCLDAH0003	PBS FAN	
<u>14</u>	L6FCLDCH0001	INHALATION FAN 2	
<u>15</u>	L6FCMFFH0001	INHALATION FAN 1	
<u>90</u>	N2QAEA000022	REMOTE CONTROLLER	
<u>16</u>	TBLB0039-1	ADJUST LEG (RIGHT)	
<u>17</u>	TBLB0040-1	ADJUST LEG (LEFT)	
<u>18</u>	TBLG3040	SIDE FOOT	
<u>19</u>	TBLG3042	RUBBER LEG (REAR)	
<u>20</u>	TBMA126	PANASONIC MARK	
	TBMF555	MODEL NAME PLATE	PT-L785U
	TBMF556	MODEL NAME PLATE	PT-L785E
	TBMF563	MODEL NO. LABEL	PT-L785U
	TBMF564	MODEL NO. LABEL	PT-L785E



Ref. No.	Part No.	Part Name & Description	Remarks
<a href="#">21</a>	TBXA36801	CONTROL BUTTON	
<a href="#">22</a>	TBXA37201	LENS CHANGE SWITCH	
<a href="#">23</a>	TEEC0033	LENS EXCHANGE UNIT	
<a href="#">24</a>	TEEC5084	INHALATION DUCT 1	
<a href="#">25</a>	TEEC5085-1	INHALATION DUCT 2	
<a href="#">26</a>	TEEC5086	OPTICAL DUCT 1	
<a href="#">27</a>	TEEC5087	OPTICAL DUCT 2	
<a href="#">28</a>	TEEC5088-1	PBS DUCT	
<a href="#">29</a>	TEEC5089	PBS COVER	
<a href="#">30</a>	TEEC5090-1	SOCKET COVER	
<a href="#">31</a>	TEFC5021-1	SHIELD BOARD (K-PCB)	
	TEFX5001	CABLE STRAP	
<a href="#">32</a>	TEJF021	HANDLE PIN	
<a href="#">33</a>	TEKX012	LENS CHANGE SHIFT	
<a href="#">34</a>	TESA181-1	BIMETAL INSTAL METAL	
	TESD048	SPRING	
	TEWA191	SHEET	
	TEWA192	SHEET	
	THEA110	SCREW	
	THEC035N	SCREW	
	THEC066N	SCREW	
	THEC069U	SCREW	
	THNG003X	NUT	
<a href="#">35</a>	TKGF0074	PBS	
<a href="#">36</a>	TKGF0075	LENS	
	TKKC5142	REMOTE RECEIVER PLATE(F)	
	TKKC5143	RECIVER UNIT(REAR)	
<a href="#">37</a>	TKKC5153	LED SPREAD BOARD	
<a href="#">38</a>	TKKL5242	LAMP COVER	
<a href="#">39</a>	TKKL5244	LENS COVER	
<a href="#">40</a>	TKNE049-2	FILTER	
<a href="#">41</a>	TKRA30801	HANDLE	
<a href="#">42</a>	TKZF5035	TERMINAL METAL	
<a href="#">43</a>	TKZJ5039	FAN INSTALL METAL / (LAMP COVER)	
<a href="#">44</a>	TKZJ5040	INHALATION FAN METAL 1	
<a href="#">45</a>	TKZJ5041	INHALATION FAN METAL 2	
	TKZJ5044	FAN GUARD (K-PCB)	
	TMKG336	RUBBER SEAL / (SPEAKER-R/L)	
	TMKG357	SPEAKER SPACER	
	TMKK103	SHEET	
	TMKK213	SHEET	
	TMKX012	LAMP COVER WASHER	
<a href="#">46</a>	TMKX414	INSULATION SHEET (K-PCB)	
	TMKX463	INSULATION SHEET 2 / (K-PCB)	
	TMKX464	INSULATION SHEET (K-PCB)	
	TMKX499	WASHER	
<a href="#">47</a>	TMKX715	POWER INSULATION SHEET(1)	
<a href="#">48</a>	TMKX716	POWER INSULATION / SHEET(2)	
	TMME090	SPACER	
	TMME154	FUSE COVER	
	TMME196	SPACER	
	TMMX024	SHEET (SPEAKER-R/L)	
<a href="#">49</a>	TMZK5016	SPEAKER BOX / (SPEAKER-R/L)	
<a href="#">50</a>	TMZX5027-1	FILTER COVER	

3	TABLE 1	TABLE 2	
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Ref. No.	Part No.	Part Name & Description	Remarks
<a href="#">51</a>	TPCB27214	CARTON	PT-L785U
	TPCB27215	CARTON	PT-L785E
<a href="#">52</a>	TPDA0668-1	CUSHION(UPPER)	
<a href="#">53</a>	TPDA0669-1	CUSHION(BOTTOM)	
<a href="#">54</a>	TPDF0818	ACCESSARY PACKING CASE	
<a href="#">55</a>	TPDF0888-1	PAD(1)	
<a href="#">56</a>	TPEH110-1	SET COVER	
<a href="#">57</a>	TPEH124-1	SET COVER	
	TQB817002-1	SAFETY SHEET	PT-L785U
	TQBH7017	SHEET (PASSWORD)	
<a href="#">58</a>	TQBJ0150	INSTRUCTION BOOK	 PT-L785U
	TQBJ0151	INSTRUCTION BOOK	 PT-L785E
<a href="#">59</a>	TQBJ0158	INSTRUCTION BOOK(LAN)	 PT-L785U
	TQBJ0159	INSTRUCTION BOOK(LAN)	 PT-L785E
	TQDJ18004	GUARANTEE CARD(CANADA)	PT-L785U
	TQDJ18015-7	GUARANTEE CARD (USA)	PT-L785U
	TQF86202	LABEL	
	TQFB961	WARNING LABEL	
	TSEX0004	BIMETAL	
<a href="#">60</a>	TSEX8005	SWITCH	 / K0ADBF000007
<a href="#">61</a>	TTPA0380	TERMINAL COVER ASSY	
<a href="#">62</a>	TUCJ5448	HEAT SINK (A-PCB)	
<a href="#">63</a>	TUCX5111	EARTH METAL(K-P)	
<a href="#">64</a>	TUCX5112-1	EARTH METAL	
<a href="#">65</a>	TUWC039-1	INSTAL METAL (K-PCB)	
<a href="#">66</a>	TUXE186	WL METAL (1)	
<a href="#">67</a>	TUXE187	SPEAKER INSTAL METAL (R)	
<a href="#">68</a>	TUXE188	SPEAKER INSTAL METAL (L)	
<a href="#">69</a>	TUXE233	POWER BOX 1	
<a href="#">70</a>	TUXE234	POWER BOX 2	
<a href="#">71</a>	TUXX255	LAMP FAN METAL (A)	
<a href="#">72</a>	TUXX256	LAMP FAN METAL (B)	
<a href="#">73</a>	TUXX319	POWER FAN INSTALL METAL	
	TXAJE01VJJ8B	EARTH LEAD WIRE(K-PCB)	
<a href="#">74</a>	TXFKL01VJX7	LAMP COVER WITH FAN	
<a href="#">75</a>	TXFKR01VJX7	RECEIPT COVER	
	TXJ/A4VJX7	LEAD WIRE(A4-Q3)	
	TXJ/F1VJN1	LEAD WIRE(K-PCB)	
	TXJ/J1VJN1	LEAD WIRE(J1-A13)	
	TXJ/J2VJN1	LEAD WIRE(J2-A14)	
	TXJ/K1VJN1	LEAD WIRE(K1-P1)	
	TXJ/L2VJX7	LAMP CONNECTOR	
	TXJ/P1VJX7	LEAD WIRE(P1-RELAY)	
	TXJ/P2VJX7	LEAD WIRE(P1-B1)	
	TXJ/P3VJX7	LEAD WIRE(P3-A6)	
	TXJ/R1VJN1	LEAD WIRE(R1-A7)	
	TXJ/S1VJX7	LEAD WIRE(S1-A8)	
<a href="#">76</a>	TXZKG02VJX7	POLARIZING PLATE/IN(R)	
<a href="#">77</a>	TXZKG03VJX7	POLARIZING PLATE/IN(G)	
<a href="#">78</a>	TXZKG04VJX7	POLARIZING PLATE/IN(B)	
<a href="#">79</a>	XSB3+8FN	SCREW	
	XSB4+10FC	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
	XSN3+8	SCREW	
80	XSN4+10	SCREW	
	XSN4+18	SCREW	
	XSS2+4FZ	SCREW	
	XTBT969Z	SCREW	
	XTN3+6G	SCREW	
	XTV3+10G	SCREW	
	XTV3+12A	SCREW	
	XTW3+8P	TAPPING SCREW	
	XUC3FY	WASHER	
	XYN2+F6	SCREW	
	XYN3+F16	SCREW	
	XYN3+F20FZ	SCREW	
	XYN3+F6	SCREW	
	XYN3+F8	SCREW	
	XYN3+J8	SCREW	
	XYN4+E8	SCREW	
	XYN4+F30	SCREW	
	XYN4+J10	SCREW	
	XYN4+J30	SCREW	
	XYN4+J35	SCREW	
81	XZBT6532	POLY BAG	PT-L785U
82	TXFKF99PWWZ	UPPER COVER	
83	TXFKF98PWWZ	BOTTOM COVER	PT-L785U
	TXFKF99PWYZ	BOTTOM COVER	PT-L785E
84	TXFGP99VJX7	POLARIZING PLATE/OUT(R)	
85	TXFGP98VJX7	POLARIZING PLATE/OUT(G)	
86	TXFGP97VJX7	POLARIZING PLATE/OUT(B)	
87	TXFEC99VJX7	ANALYSIS BLOCK	
88	TXFEN99VJX7	OPTICAL BLOCK	
[INTEGRATED CIRCUIT]			
IC1001	C1AB00001982	I.C	
IC1002	C1AB00001486	I.C	
IC1004	C0CBCBD00008	I.C	
IC1005	C0CBCAD00016	I.C	
IC1006	C0CBCAD00012	I.C	
IC1007	C0JBAR000370	I.C	
IC1008	C0ZBZ0000136	I.C	
IC1009	C0ABBB000190	I.C	
IC1010	C0DBZJD00003	I.C	
IC1011	C1BB00000646	I.C	
IC1012	C1BB00000646	I.C	
IC1021	C0FBAD000096	I.C	
IC1022	C1AB00002017	I.C	
IC1023	C1AB00002017	I.C	
IC1024	C0JBAR000367	I.C	
IC1025	M52036SP	I.C	C1AA00000392
IC1026	C0ABGB000019	I.C	
IC1027	C0ABGB000019	I.C	
IC1028	C0ABGB000019	I.C	
IC1029	C0JBAZ001264	I.C	
IC1030	C0JBAA000233	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1031	24LC21T-I/SN	I.C	C3EBCC000020
IC1032	24LC21T-I/SN	I.C	C3EBCC000020
IC1033	C1CB00001014	I.C	
IC1034	C0CBCBD00008	I.C	
IC1035	C0DBCCE00004	I.C	
IC1036	C3EBDC000046	I.C	
IC1037	C0JBAE000239	I.C	
IC1038	C0JBAZ002115	I.C	
IC1039	C0JBAZ002115	I.C	
IC1051	C1AB00001926	I.C	
IC1052	C3ABPJ000069	I.C	
IC1053	C0DBZFF00003	I.C	
IC1054	C0JBAZ000529	I.C	
IC1055	C0CBCAC00096	I.C	
IC1056	C0CBCBD00008	I.C	
IC1061	C1AB00001851	I.C	
IC1062	C1ZBZ0002332	I.C	
IC1063	TVRN283	I.C	
IC1064	C0EBB0000025	I.C	
IC1065	C0DBAFA00022	I.C	
IC1066	C0CBCAD00012	I.C	
IC1067	C0JBAB000421	I.C	
IC1069	C0JBAE000135	I.C	
IC1070	C0JBAB000290	I.C	
IC1071	C0JBAA000146	I.C	
IC1072	C0JBAC000237	I.C	
IC1073	C3EBLC000019	I.C	
IC1074	C0JBAA000146	I.C	
IC1075	C0DBZHE00019	I.C	
IC1079	C0DBZJD00003	I.C	
IC1080	C0DBEKG00004	I.C	
IC1081	C0DBEZE00002	I.C	
IC1082	C0DBEZF00004	I.C	
IC1083	C0DBEZE00002	I.C	
IC1084	C0DBEZE00002	I.C	
IC1085	C0DBEZE00002	I.C	
IC1086	C0DBZHE00019	I.C	
IC1087	LB1831M	I.C	C0GBD0000002
IC1088	M62393FP	I.C	C0FBBD000085
IC1089	C0DBEZF00004	I.C	
IC1090	C0JBAS000206	I.C	
IC1091	C0DBEZF00004	I.C	
IC1104	C0DBZFF00004	I.C	
IC1105	C1AB00001787	I.C	
IC1106	C1AB00001774	I.C	
IC1107	C1AB00001774	I.C	
IC1108	C1AB00001774	I.C	
IC1109	C1AB00001673	I.C	
IC1110	C1AB00001673	I.C	
IC1111	C1AB00001673	I.C	
IC1112	M62399FP	I.C	C0FBBD000088
IC1113	AN78L12M	I.C	
IC1114	AN78L05M	I.C	
IC1115	C1ZBZ0002572	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1116	C0JBAE000135	I.C	
IC1117	C0DBZFE00004	I.C	
IC1201	C5CB00000060	I.C	
IC1202	TVRN284	I.C	
IC1203	C3ABQJ000023	I.C	
IC1204	C2DBMY000001	I.C	
IC1205	C0JBAB000290	I.C	
IC1206	C1DB00001208	I.C	
IC1207	C0DBFFD00003	I.C	
IC3022	C0ABGB000019	I.C	
IC3023	C0ABGB000019	I.C	
IC3024	C0ABGB000019	I.C	
IC9601	MIP0221SUL	I.C	
IC9602	C0ZAZ0000077	I.C	
IC9603	C0ZAZ0000077	I.C	
[TRANSISTORS]			
Q1001	2SD1819A	TRANSISTOR	2SD1819AW
Q1002	2SD1819A	TRANSISTOR	2SD1819AW
Q1003	2SD1819A	TRANSISTOR	2SD1819AW
Q1004	2SB1218A	TRANSISTOR	
Q1005	2SB1218A	TRANSISTOR	
Q1006	2SD1819A	TRANSISTOR	2SD1819AW
Q1007	2SD1819A	TRANSISTOR	2SD1819AW
Q1008	2SD1819A	TRANSISTOR	2SD1819AW
Q1009	2SD1819A	TRANSISTOR	2SD1819AW
Q1010	2SD1819A	TRANSISTOR	2SD1819AW
Q1011	2SD1819A	TRANSISTOR	2SD1819AW
Q1012	2SD1819A	TRANSISTOR	2SD1819AW
Q1013	2SD1819A	TRANSISTOR	2SD1819AW
Q1014	2SB1218A	TRANSISTOR	
Q1015	2SD1819A	TRANSISTOR	2SD1819AW
Q1016	2SD1819A	TRANSISTOR	2SD1819AW
Q1017	2SB1218A	TRANSISTOR	
Q1018	2SD1819A	TRANSISTOR	2SD1819AW
Q1019	2SD1819A	TRANSISTOR	2SD1819AW
Q1020	2SD1819A	TRANSISTOR	2SD1819AW
Q1021	2SD1819A	TRANSISTOR	2SD1819AW
Q1022	2SD1819A	TRANSISTOR	2SD1819AW
Q1023	2SD1819A	TRANSISTOR	2SD1819AW
Q1024	2SB1218A	TRANSISTOR	
Q1025	2SB1218A	TRANSISTOR	
Q1026	2SB1218A	TRANSISTOR	
Q1027	2SB1218A	TRANSISTOR	
Q1028	2SB1218A	TRANSISTOR	
Q1029	2SB1218A	TRANSISTOR	
Q1030	2SD1819A	TRANSISTOR	2SD1819AW
Q1031	2SD1819A	TRANSISTOR	2SD1819AW
Q1032	2SB1218A	TRANSISTOR	
Q1033	2SB1218A	TRANSISTOR	
Q1034	2SB1218A	TRANSISTOR	
Q1035	B1DHDD000020	TRANSISTOR	
Q1036	B1CBHD000001	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q1037	B1CBHD000001	TRANSISTOR	
Q1038	B1CBHD000001	TRANSISTOR	
Q1039	B1CBHD000001	TRANSISTOR	
Q1040	2SD1819A	TRANSISTOR	2SD1819AW
Q1044	2SD1819A	TRANSISTOR	2SD1819AW
Q1045	2SD1819A	TRANSISTOR	2SD1819AW
Q1046	B1DHDD000020	TRANSISTOR	
Q1047	B1DHDD000020	TRANSISTOR	
Q1048	2SK060100L	TRANSISTOR	
Q1049	2SD1819A	TRANSISTOR	2SD1819AW
Q1050	2SD1819A	TRANSISTOR	2SD1819AW
Q1051	2SD1819A	TRANSISTOR	2SD1819AW
Q1052	2SD1819A	TRANSISTOR	2SD1819AW
Q1053	2SD1819A	TRANSISTOR	2SD1819AW
Q1054	2SD1819A	TRANSISTOR	2SD1819AW
Q1055	2SD1819A	TRANSISTOR	2SD1819AW
Q1056	2SB1218A	TRANSISTOR	
Q1057	2SD1819A	TRANSISTOR	2SD1819AW
Q1058	2SD1819A	TRANSISTOR	2SD1819AW
Q1059	2SD1819A	TRANSISTOR	2SD1819AW
Q1060	2SD1819A	TRANSISTOR	2SD1819AW
Q1079	2SD1819A	TRANSISTOR	
Q1080	2SD1819A	TRANSISTOR	
Q1081	2SD1819A	TRANSISTOR	
Q3004	2SD601A-R	TRANSISTOR	2SD0601AR
Q3005	2SD601A-R	TRANSISTOR	2SD0601AR
Q3006	2SD601A-R	TRANSISTOR	2SD0601AR
Q3007	2SD601A-R	TRANSISTOR	2SD0601AR
Q3008	2SD601A-R	TRANSISTOR	2SD0601AR
Q3501	2SB709A	TRANSISTOR	2SB0709A
Q3502	2SB709A	TRANSISTOR	2SB0709A
Q3503	2SD601A-R	TRANSISTOR	2SD0601AR
Q3504	2SD601A-R	TRANSISTOR	2SD0601AR
Q3505	2SD601A-R	TRANSISTOR	2SD0601AR
Q9603	B1DEGQ000017	TRANSISTOR	
Q9604	2SB710A	TRANSISTOR	2SB0710A
Q9605	2SB710A	TRANSISTOR	2SB0710A
Q9606	B1JACQ000002	TRANSISTOR	
Q9607	B1JACQ000002	TRANSISTOR	
Q9608	2SB710A	TRANSISTOR	2SB0710A
Q9609	2SB710A	TRANSISTOR	2SB0710A
Q9610	B1JACQ000002	TRANSISTOR	
Q9611	B1JACQ000002	TRANSISTOR	
Q9614	B1DEGQ000017	TRANSISTOR	
[DIODES]			
D1001	MA3056M	ZENER DIODE	MAZ30560M
D1002	MA3056M	ZENER DIODE	MAZ30560M
D1003	MA3056M	ZENER DIODE	MAZ30560M
D1004	MA3100H	ZENER DIODE	MAZ31000H
D1005	MA3100H	ZENER DIODE	MAZ31000H
D1006	MA3100H	ZENER DIODE	MAZ31000H
D1007	MA3100H	ZENER DIODE	MAZ31000H

Ref. No.	Part No.	Part Name & Description	Remarks
D1008	MA3056M	ZENER DIODE	MAZ30560M
D1009	MA3056M	ZENER DIODE	MAZ30560M
D1010	MA3056M	ZENER DIODE	MAZ30560M
D1011	MA3056M	ZENER DIODE	MAZ30560M
D1012	MA3056M	ZENER DIODE	MAZ30560M
D1013	MA157A	DIODE	MA3X157A
D1014	MA157A	DIODE	MA3X157A
D1015	MA157A	DIODE	MA3X157A
D1016	MA3056M	ZENER DIODE	MAZ30560M
D1017	MA3056M	ZENER DIODE	MAZ30560M
D1018	MA3150M	DIODE	MAZ31500M
D1019	MA3150M	DIODE	MAZ31500M
D1020	MA3150M	DIODE	MAZ31500M
D1021	MA3150M	DIODE	MAZ31500M
D1022	MA3056M	ZENER DIODE	MAZ30560M
D1023	MA3056M	ZENER DIODE	MAZ30560M
D1024	MA3056M	ZENER DIODE	MAZ30560M
D1025	MA157A	DIODE	MA3X157A
D1026	MA157A	DIODE	MA3X157A
D1027	MA157A	DIODE	MA3X157A
D1028	MA2Z72000L	DIODE	
D1029	MA2Z72000L	DIODE	
D1030	MA8056M	DIODE	MAZ80560M
D1031	MA8056M	DIODE	MAZ80560M
D1032	MA2Z72000L	DIODE	
D1035	MA157A	DIODE	MA3X157A
D1036	MA157A	DIODE	MA3X157A
D1037	MA157A	DIODE	MA3X157A
D1038	MA157A	DIODE	MA3X157A
D1039	MA157A	DIODE	MA3X157A
D1040	MA157A	DIODE	MA3X157A
D1041	MA157A	DIODE	MA3X157A
D1042	MA157A	DIODE	MA3X157A
D1043	B0JCPD000010	DIODE	
D1044	MA2S11100L	DIODE	
D1045	B3AAB0000180	DIODE	
D1046	B3ABB0000189	DIODE	
D1047	B0JCPD000010	DIODE	
D1048	B0JCPD000010	DIODE	
D1049	MAZY12000L	DIODE	
D1050	B0HCMM0000001	DIODE	
D1051	B0JCPD000010	DIODE	
D1052	B0JCPD000010	DIODE	
D1053	LNJ208R8ARA	LED	
D1054	MA157A	DIODE	MA3X157A
D1055	MA157A	DIODE	MA3X157A
D1056	MA157A	DIODE	MA3X157A
D1057	MA157A	DIODE	MA3X157A
D1058	LNJ208R8ARA	LED	
D1059	LNJ208R8ARA	LED	
D1061	MA152WK	DIODE	MA3X152E
D1062	MA152WK	DIODE	MA3X152E
D1063	EZJZ0V80008B	DIODE	
D1064	EZJZ0V80008B	DIODE	



Ref. No.	Part No.	Part Name & Description	Remarks
D1065	EZJZ0V80008B	DIODE	
D1066	EZJZ0V80008B	DIODE	
D1067	EZJZ0V80008B	DIODE	
D1068	EZJZ0V80008B	DIODE	
D1069	EZJZ0V80008B	DIODE	
D1070	EZJZ0V80008B	DIODE	
D3001	MA3056M	ZENER DIODE	MAZ30560M
D3002	MA3056M	ZENER DIODE	MAZ30560M
D3003	MA157A	DIODE	MA3X157A
D3004	MA157A	DIODE	MA3X157A
D3005	MA157A	DIODE	MA3X157A
D3006	MA153A	DIODE	MA3X153A
D3007	MA153A	DIODE	MA3X153A
D3008	MA153A	DIODE	MA3X153A
D3009	MA153A	DIODE	MA3X153A
D3010	MA153A	DIODE	MA3X153A
D3501	LNJ107W5ARA1	LED	
D3502	LNJ208R8ARA	LED	
D3503	LNJ208R8ARA	LED	
D3504	LNJ308G8TRA	LED	
D3701	MA157A	DIODE	MA3X157A
D9601	B0HASR000006	DIODE	
D9604	MA158	DIODE	MA3X158
D9605	MA2Z72000L	DIODE	
D9606	MA158	DIODE	MA3X158
D9607	MA2Z72000L	DIODE	
D9608	MA158	DIODE	MA3X158
D9609	MA2Z72000L	DIODE	
D9611	MA158	DIODE	MA3X158
D9612	MA2Z72000L	DIODE	
[COILS]			
L1001	ELJFA150JF	COIL	
L1002	ELJFA150JF	COIL	
L1003	J0JCC0000168	FILTER	
L1004	J0JCC0000168	FILTER	
L1005	J0JCC0000168	FILTER	
L1006	J0JJC0000022	EMI FILTER	
L1007	J0JJC0000022	EMI FILTER	
L1008	J0JJC0000022	EMI FILTER	
L1009	J0JJC0000022	EMI FILTER	
L1010	J0JJC0000022	EMI FILTER	
L1011	J0JJC0000022	EMI FILTER	
L1012	J0JJC0000022	EMI FILTER	
L1013	J0JJC0000022	EMI FILTER	
L1014	J0JJC0000022	EMI FILTER	
L1015	J0JJC0000022	EMI FILTER	
L1016	J0JJC0000022	EMI FILTER	
L1017	J0JCC0000168	FILTER	
L1018	J0JCC0000168	FILTER	
L1019	J0JCC0000168	FILTER	
L1020	J0JCC0000168	FILTER	
L1021	J0JCC0000168	FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
L1022	J0JCC0000168	FILTER	
L1023	J0JJC0000022	EMI FILTER	
L1024	J0JJC0000022	EMI FILTER	
L1025	J0JJC0000022	EMI FILTER	
L1026	J0JJC0000022	EMI FILTER	
L1027	J0JJC0000022	EMI FILTER	
L1028	J0JJC0000022	EMI FILTER	
L1029	J0JJC0000022	EMI FILTER	
L1030	J0JJC0000022	EMI FILTER	
L1031	J0JJC0000022	EMI FILTER	
L1032	J0JCC0000168	FILTER	
L1033	J0JCC0000168	FILTER	
L1034	J0JJC0000022	EMI FILTER	
L1035	J0JJC0000022	EMI FILTER	
L1036	J0JJC0000022	EMI FILTER	
L1037	J0JJC0000022	EMI FILTER	
L1038	J0JJC0000022	EMI FILTER	
L1039	J0JJC0000022	EMI FILTER	
L1040	J0JJC0000022	EMI FILTER	
L1041	J0JJC0000022	EMI FILTER	
L1042	ELJFA100JF	COIL	
L1043	J0JJC0000022	EMI FILTER	
L1044	J0JJC0000022	EMI FILTER	
L1045	J0JJC0000022	EMI FILTER	
L1046	J0JJC0000022	EMI FILTER	
L1047	J0JJC0000022	EMI FILTER	
L1048	J0JJC0000022	EMI FILTER	
L1049	J0JJC0000022	EMI FILTER	
L1050	J0JJC0000022	EMI FILTER	
L1051	J0JJC0000022	EMI FILTER	
L1052	J0JJC0000022	EMI FILTER	
L1053	J0JJC0000022	EMI FILTER	
L1054	J0JJC0000022	EMI FILTER	
L1055	G1C180MA0100	COIL	
L1056	J0JJC0000022	EMI FILTER	
L1058	J0JJC0000022	EMI FILTER	
L1059	J0JJC0000022	EMI FILTER	
L1060	J0JJC0000022	EMI FILTER	
L1061	J0JJC0000022	EMI FILTER	
L1062	J0JJC0000022	EMI FILTER	
L1063	J0JJC0000022	EMI FILTER	
L1064	J0JJC0000022	EMI FILTER	
L1065	J0JJC0000022	EMI FILTER	
L1066	J0JJC0000022	EMI FILTER	
L1067	J0JJC0000022	EMI FILTER	
L1068	J0JJC0000022	EMI FILTER	
L1069	J0JJC0000022	EMI FILTER	
L1070	J0JJC0000022	EMI FILTER	
L1071	J0JJC0000022	EMI FILTER	
L1072	J0JJC0000022	EMI FILTER	
L1073	J0JJC0000022	EMI FILTER	
L1074	J0JJC0000022	EMI FILTER	
L1075	J0JJC0000022	EMI FILTER	
L1076	J0JCC0000168	FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
L1077	J0JCC0000168	FILTER	
L1078	J0JCC0000168	FILTER	
L1079	J0JCC0000168	FILTER	
L1080	J0JCC0000168	FILTER	
L1081	J0JCC0000168	FILTER	
L1082	J0JCC0000168	FILTER	
L1083	J0JJC0000022	EMI FILTER	
L1084	J0JJC0000022	EMI FILTER	
L1085	J0JJC0000022	EMI FILTER	
L1086	J0JJC0000022	EMI FILTER	
L1087	J0JJC0000022	EMI FILTER	
L1088	J0JJC0000022	EMI FILTER	
L1089	J0JJC0000022	EMI FILTER	
L1090	J0JJC0000022	EMI FILTER	
L1091	J0JJC0000022	EMI FILTER	
L1092	J0JJC0000022	EMI FILTER	
L1093	J0JJC0000022	EMI FILTER	
L1094	J0JJC0000022	EMI FILTER	
L1095	J0JJC0000022	EMI FILTER	
L1096	J0JJC0000022	EMI FILTER	
L1097	J0JJC0000022	EMI FILTER	
L1098	J0JJC0000022	EMI FILTER	
L1099	J0JJC0000022	EMI FILTER	
L1100	J0JJC0000022	EMI FILTER	
L1101	J0JJC0000022	EMI FILTER	
L1102	J0JJC0000022	EMI FILTER	
L1103	J0JJC0000022	EMI FILTER	
L1104	J0JJC0000022	EMI FILTER	
L1105	J0JJC0000022	EMI FILTER	
L1106	J0JJC0000022	EMI FILTER	
L1107	J0JJC0000022	EMI FILTER	
L1108	J0JJC0000022	EMI FILTER	
L1109	J0JJC0000022	EMI FILTER	
L1110	J0JJC0000022	EMI FILTER	
L1111	J0JJC0000022	EMI FILTER	
L1112	J0JJC0000022	EMI FILTER	
L1115	J0JJC0000022	EMI FILTER	
L3014	EXCML16A270	COIL	
L9604	G0ZZ00002182	COIL	
L9605	G0ZZ00002173	COIL	
LC3001	ELKE103FA	EMI FILTER	
LC3002	ELKE103FA	EMI FILTER	
LC3003	ELKE103FA	EMI FILTER	
LC3004	ELKE103FA	EMI FILTER	
LC3005	ELKE103FA	EMI FILTER	
FL1001	J0HABB000015	FILTER	
FL1002	J0HABB000015	FILTER	
FL1003	J0HABB000015	FILTER	
FL1004	J0HABB000015	FILTER	
FL1005	J0HABB000015	FILTER	
FL1006	J0HABB000015	FILTER	
FL1007	J0HABB000015	FILTER	
FL1008	J0HABB000015	FILTER	
FL1009	J0HABB000015	FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
FL1018	J0MAB0000176	FILTER	
FL1019	J0MAB0000176	FILTER	
FL1020	J0MAB0000176	FILTER	
FL1021	J0MAB0000176	FILTER	
[RESISTORS]			
R1001	ERJ3GEYJ102	M 1K OHM,J,,1/16W	
R1002	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1003	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1004	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1005	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1006	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1007	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1008	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1009	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1010	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1011	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1012	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1013	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1014	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1015	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1016	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1017	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1018	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1019	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1020	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1021	ERJ3GEYJ271	M 270 OHM,J,1/16W	
R1022	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1023	EXB28V220J	RESISTOR ARRAY	
R1024	EXB28V220J	RESISTOR ARRAY	
R1025	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	
R1026	D1HG2208A002	RESISTOR	
R1027	D1HG2208A002	RESISTOR	
R1028	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1029	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1030	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1031	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1032	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1034	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1035	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1036	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1037	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1038	ERJ3GEYF473	M 47KOHM,J,1/16W	
R1039	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1040	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1041	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1042	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1043	ERJ3GEYF512	M 5.1K OHM,J,1/16W	
R1044	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1045	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1046	ERJ3GEYJ272	M 2.7K OHM,J,1/16W	
R1047	ERJ1TYJ470	M 47 OHM, J, 1W	
R1048	ERJ1TYJ470	M 47 OHM, J, 1W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1049	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1050	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1051	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1052	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1053	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1054	ERJ1TYJ470	M 47 OHM, J, 1W	
R1055	ERJ1TYJ470	M 47 OHM, J, 1W	
R1056	ERJ1TYJ470	M 47 OHM, J, 1W	
R1058	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1059	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1060	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1061	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1062	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1063	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1064	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1065	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1066	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1067	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1068	ERJ1TYJ470	M 47 OHM, J, 1W	
R1069	ERJ1TYJ470	M 47 OHM, J, 1W	
R1070	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1071	ERJ1TYJ470	M 47 OHM, J, 1W	
R1072	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1073	ERJ1TYJ470	M 47 OHM, J, 1W	
R1074	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1075	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1076	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1077	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1078	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1080	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1081	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1082	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1083	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1084	ERJ1TYJ470	M 47 OHM, J, 1W	
R1085	ERJ3GEYJ393	M 39K OHM,J,1/16W	
R1086	ERJ3GEYJ393	M 39K OHM,J,1/16W	
R1087	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1088	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1089	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1090	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1091	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1092	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1093	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1094	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1095	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1096	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1097	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1098	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1099	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1100	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1101	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1102	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1103	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1104	ERJ6ENF75R0	M 75 OHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1105	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1106	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1107	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1108	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1109	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1110	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1111	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1112	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1113	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1114	ERJ3GEYJ274	M 270 OHM,J,1/16W	
R1115	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1116	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1117	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1118	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1119	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1120	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1121	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1122	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1123	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1124	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1125	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1126	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1127	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1128	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1129	ERJ3EKF5600	M 560 OHM,0.063W	
R1130	ERJ3EKF5600	M 560 OHM,0.063W	
R1131	ERJ3EKF5600	M 560 OHM,0.063W	
R1132	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1133	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1134	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1135	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1136	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1137	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1138	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1139	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1140	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1141	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1142	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1143	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1144	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1145	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1146	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1147	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1148	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1149	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1150	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1151	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1152	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1153	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1154	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1155	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1156	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1157	ERJ2GEJ220	M 22 OHM, 0.063W	
R1158	ERJ3GEYJ180	M 18 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1159	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1160	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1161	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1162	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1163	ERJ2GEJ220	M 22 OHM, 0.063W	
R1164	ERJ2GEJ220	M 22 OHM, 0.063W	
R1165	ERJ2GEJ220	M 22 OHM, 0.063W	
R1166	ERJ2GEJ220	M 22 OHM, 0.063W	
R1167	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1168	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1169	D1HG2208A002	RESISTOR	
R1170	D1HG2208A002	RESISTOR	
R1172	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1173	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1174	D1HG2208A002	RESISTOR	
R1175	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1176	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1177	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1178	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1180	ERJ6ENF4990	M 499 OHM, 1/10W	
R1181	ERJ6ENF2741	M2.74KOHM, 1/10W	
R1182	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1183	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1186	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1187	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1188	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1189	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1190	ERJ2GEJ332	M 3.3KOHM, 0.063W	
R1191	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1192	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1193	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1194	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1195	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1196	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1197	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1198	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1199	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1200	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1201	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1202	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1203	ERJ2GEJ332	M 3.3KOHM, 0.063W	
R1204	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1205	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1206	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1207	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1208	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1209	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1210	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1211	ERJ2GEJ332	M 3.3KOHM, 0.063W	
R1212	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1213	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1214	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1215	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1216	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1217	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1218	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1219	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1220	ERJ2GEJ560	M 56 OHM, 0.063W	
R1221	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1222	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1223	ERJ2GEJ104	M 100KOHM, 0.063W	
R1224	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1225	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1226	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1227	ERJ2GEJ332	M 3.3KOHM, 0.063W	
R1228	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1229	ERJ2GEJ183	M 18K OHM, 0.063W	
R1230	ERJ2GEJ103	M 10K OHM, 0.063W	
R1231	ERJ2GEJ183	M 18K OHM, 0.063W	
R1232	ERJ6ENF2702	M 27KOHM, 1/10W	
R1233	ERJ2GEJ182	M 1.8KOHM, 0.063W	
R1234	ERJ2GEJ182	M 1.8KOHM, 0.063W	
R1235	ERJ2GEJ272	M 2.7KOHM, 0.063W	
R1236	ERJ2GEJ182	M 1.8KOHM, 0.063W	
R1237	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1238	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1239	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1240	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1241	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1242	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1243	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1245	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1246	ERJ2GEJ151	M 150 OHM, 0.063W	
R1247	ERJ2GEJ681	M 680 OHM, 0.063W	
R1248	ERJ2GEJ331	M 330 OHM, 0.063W	
R1249	ERJ2GEJ821	M 820 OHM, 0.063W	
R1250	ERJ2GE0R00	M 0 OHM, 0.063W	
R1251	ERJ2GE0R00	M 0 OHM, 0.063W	
R1252	ERJ2GE0R00	M 0 OHM, 0.063W	
R1254	ERJ2GEJ272	M 2.7KOHM, 0.063W	
R1255	ERJ2GEJ272	M 2.7KOHM, 0.063W	
R1256	ERJ2GEJ272	M 2.7KOHM, 0.063W	
R1257	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1258	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1259	ERJ2GEJ560	M 56 OHM, 0.063W	
R1260	ERJ2GEJ560	M 56 OHM, 0.063W	
R1261	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1262	ERJ3GEYJ750	M 75 OHM,J,1/16W	
R1263	ERJ3GEYJ750	M 75 OHM,J,1/16W	
R1264	ERJ3GEYJ750	M 75 OHM,J,1/16W	
R1265	ERJ2GEJ220	M 22 OHM, 0.063W	
R1266	ERJ2GEJ220	M 22 OHM, 0.063W	
R1267	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1268	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1269	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1270	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1271	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1272	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	



Ref. No.	Part No.	Part Name & Description	Remarks
R1273	ERJ2GEJ222	M 2.2KOHM, 0.063W	
R1274	ERJ2GEJ222	M 2.2KOHM, 0.063W	
R1275	ERJ2GEJ222	M 2.2KOHM, 0.063W	
R1276	ERJ6ENF1000	M 100 OHM, 1/10W	
R1277	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1278	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1279	ERJ2GEJ112	M 1.1KOHM, 0.063W	
R1280	EXB28V560J	RESISTOR ARRAY	
R1281	EXB28V560J	RESISTOR ARRAY	
R1282	EXB28V560J	RESISTOR ARRAY	
R1283	EXB28V560J	RESISTOR ARRAY	
R1284	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1285	ERJ2GEJ220	M 22 OHM, 0.063W	
R1286	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1287	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1288	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1289	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1290	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1291	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1292	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1293	ERJ3EKF2200	M 220 OHM, 0.063W	
R1294	ERJ3EKF2200	M 220 OHM, 0.063W	
R1295	ERJ3EKF2200	M 220 OHM, 0.063W	
R1296	ERJ3EKF2200	M 220 OHM, 0.063W	
R1297	ERJ3EKF1500	M 150 OHM, 0.063W	
R1298	ERJ3EKF1500	M 150 OHM, 0.063W	
R1299	ERJ3EKF1500	M 150 OHM, 0.063W	
R1401	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1402	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1404	ERJ3GEY0R00	M 0 OHM,J,1/16W	
R1405	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1406	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1407	ERJ6GEYJ180	M 18 OHM,J,1/10W	
R1409	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1414	EXB28V220J	RESISTOR ARRAY	
R1415	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1416	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1418	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1419	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1420	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1422	ERJ2GEJ220	M 22 OHM, 0.063W	
R1423	ERJ2GEJ560	M 56 OHM, 0.063W	
R1424	ERJ2GEJ560	M 56 OHM, 0.063W	
R1425	EXB28V220J	RESISTOR ARRAY	
R1426	ERJ2GEJ560	M 56 OHM, 0.063W	
R1427	D1HG2208A002	RESISTOR	
R1428	D1HG2208A002	RESISTOR	
R1429	D1HG2208A002	RESISTOR	
R1430	D1HG2208A002	RESISTOR	
R1431	D1HG2208A002	RESISTOR	
R1432	D1HG2208A002	RESISTOR	
R1433	D1HG2208A002	RESISTOR	
R1441	ERJ2GEJ220	M 22 OHM, 0.063W	
R1442	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1443	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1445	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1446	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1448	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1449	EXB38V103J	RESISTOR ARRAY	
R1450	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1451	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1452	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1453	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1454	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1455	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1456	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1457	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1458	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1459	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1460	EXB28V220J	RESISTOR ARRAY	
R1461	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1462	EXB28V220J	RESISTOR ARRAY	
R1463	EXB28V220J	RESISTOR ARRAY	
R1464	EXB28V220J	RESISTOR ARRAY	
R1465	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1466	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1467	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1468	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1469	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1470	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1471	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1472	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1473	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1476	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1477	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1479	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1482	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1483	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1484	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1485	EXB38V220J	RESISTOR ARRAY	
R1486	EXB38V220J	RESISTOR ARRAY	
R1487	EXB38V220J	RESISTOR ARRAY	
R1489	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1490	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1491	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1496	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1497	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1501	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1504	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1505	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1507	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1508	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1509	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1510	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1511	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1512	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1513	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1517	ERJ3GEYJ102	M 1K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1518	ERJ6ENF2202	M 22KOHM, 1/10W	
R1519	ERJ6ENF2202	M 22KOHM, 1/10W	
R1520	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1521	EXB38V104J	RESISTOR ARRAY	
R1522	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1523	EXB38V101J	RESISTOR ARRAY	
R1524	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1525	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1526	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1527	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1532	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1543	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R1544	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1545	ERJ3EKF1002	M 10KOHM, 1/16W	
R1546	ERJ3EKF1473	M 147KOHM, 0.063W	
R1549	EXB28V102J	RESISTOR ARRAY	
R1550	ERJ6ENF2201	M 2.2KOHM, 1/10W	
R1551	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1552	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1553	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1554	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1555	ERJ8ENF1201	M 1.2KOHM, 1/8W	
R1556	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1557	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1558	ERJ6ENF2700	M 270 OHM, 1/10W	
R1559	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1560	ERJ6ENF2001	M 2KOHM, 1/10W	
R1561	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1562	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1563	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1564	ERJ8ENF1201	M 1.2KOHM, 1/8W	
R1565	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1566	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1567	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1568	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1569	ERJ8ENF1201	M 1.2KOHM, 1/8W	
R1570	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1571	ERJ12YJ100	M 10 OHM,J, 1/2W	
R1572	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1573	ERJ6ENF2700	M 270 OHM, 1/10W	
R1574	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1575	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1576	ERJ6ENF2700	M 270 OHM, 1/10W	
R1577	ERJ6ENF2001	M 2KOHM, 1/10W	
R1578	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1579	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1580	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1581	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1582	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1583	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1584	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1585	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1586	ERJ6ENF2201	M 2.2KOHM, 1/10W	
R1587	ERJ8ENF1201	M 1.2KOHM, 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1588	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1589	ERJ6ENF2700	M 270 OHM, 1/10W	
R1590	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1591	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1592	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1593	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1594	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1595	ERJ6ENF3300	M 330 OHM, 1/10W	
R1596	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1597	ERJ6ENF1001	M 1KOHM, 1/10W	
R1598	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1599	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1600	ERJ6ENF1001	M 1KOHM, 1/10W	
R1601	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1602	ERJ6ENF3300	M 330 OHM, 1/10W	
R1603	ERJ1TYJ221	M 220 OHM, 1W	
R1604	ERJ1TYJ221	M 220 OHM, 1W	
R1605	ERJ2GEJ103	M 10K OHM, 0.063W	
R1606	ERJ6ENF1802	M 18KOHM, 1/10W	
R1607	ERJ6ENF1002	M 10KOHM, 1/10W	
R1608	ERJ6ENF1002	M 10KOHM, 1/10W	
R1609	ERJ6ENF1002	M 10KOHM, 1/10W	
R1610	ERJ6ENF1002	M 10KOHM, 1/10W	
R1611	ERJ6ENF1002	M 10KOHM, 1/10W	
R1612	ERJ6ENF1002	M 10KOHM, 1/10W	
R1613	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R1614	ERJ6ENF8201	M 8.2KOHM, 1/10W	
R1615	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R1616	ERJ6ENF8201	M 8.2KOHM, 1/10W	
R1617	ERJ6ENF1802	M 18KOHM, 1/10W	
R1618	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1619	ERJ6ENF1802	M 18KOHM, 1/10W	
R1620	ERJ6ENF1001	M 1KOHM, 1/10W	
R1621	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1622	ERJ6ENF3300	M 330 OHM, 1/10W	
R1623	ERJ6ENF1002	M 10KOHM, 1/10W	
R1624	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1625	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1627	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1628	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1629	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1630	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1631	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1632	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1633	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1636	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1637	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1638	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1641	EXB28V101J	RESISTOR ARRAY	
R1642	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1643	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1644	EXB38V220J	RESISTOR ARRAY	
R1650	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1652	ERJ3GEYJ331	M 330 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1654	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1655	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1656	EXB28V220J	RESISTOR ARRAY	
R1657	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1658	ERJ2GEJ331	M 330 OHM, 0.063W	
R1660	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1661	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1662	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1665	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1666	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1667	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1669	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1672	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1677	EXB28V220J	RESISTOR ARRAY	
R1678	EXB28V102J	RESISTOR ARRAY	
R1679	EXB28V220J	RESISTOR ARRAY	
R1681	ERJ3GEYJ470	M 47 OHM,J,1/16W	
R1682	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1683	EXB28V220J	RESISTOR ARRAY	
R1687	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1688	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1690	EXB28V220J	RESISTOR ARRAY	
R1691	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1692	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1693	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1694	D1HG2208A002	RESISTOR	
R1695	D1HG2208A002	RESISTOR	
R1696	D1HG2208A002	RESISTOR	
R1697	EXB28V220J	RESISTOR ARRAY	
R1698	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1699	D1HG2208A002	RESISTOR	
R1700	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1701	D1HG2208A002	RESISTOR	
R1702	D1HG2208A002	RESISTOR	
R1703	EXB28V220J	RESISTOR ARRAY	
R1704	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1705	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1706	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1707	ERJ2GEJ101	M 100 OHM, 0.063W	
R1708	ERJ2GEJ101	M 100 OHM, 0.063W	
R1709	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1710	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1711	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1712	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1713	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1747	ERJ2GEJ220	M 22 OHM, 0.063W	
R1748	ERJ2GEJ220	M 22 OHM, 0.063W	
R1749	ERJ2GEJ220	M 22 OHM, 0.063W	
R1750	ERJ2GEJ473	M 47K OHM, 0.063W	
R1751	ERJ2GEJ473	M 47K OHM, 0.063W	
R1752	ERJ2GEJ473	M 47K OHM, 0.063W	
R1753	ERJ2GE0R00	M 0 OHM, 0.063W	
R1754	ERJ2GE0R00	M 0 OHM, 0.063W	
R1755	ERJ2GE0R00	M 0 OHM, 0.063W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1756	ERJ2GE0R00	M 0 OHM, 0.063W	
R1757	ERJ2GE0R00	M 0 OHM, 0.063W	
R1758	ERJ2GE0R00	M 0 OHM, 0.063W	
R1759	ERJ2GE0R00	M 0 OHM, 0.063W	
R1760	ERJ2GE0R00	M 0 OHM, 0.063W	
R1761	ERJ2GE0R00	M 0 OHM, 0.063W	
R1762	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1763	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1764	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1801	D1HG2208A002	RESISTOR	
R1802	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1803	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1804	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1807	ERJ6ENF2492	M24.9KOHM, 1/10W	
R1808	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1809	ERJ6ENF51R0	M 51 OHM, 1/10W	
R1810	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1811	ERJ6GEYJ105	M 1MOHM,J,1/10W	
R1812	D1HG2208A002	RESISTOR	
R1814	ERJ6ENF2491	M2.49KOHM, 1/10W	
R1816	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1817	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1818	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1820	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1821	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1823	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1824	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1825	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1826	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1827	ERJ6ENF51R0	M 51 OHM, 1/10W	
R1828	ERJ6ENF2002	M 20KOHM, 1/10W	
R1829	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1830	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1831	D1HG2208A002	RESISTOR	
R1832	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1833	ERJ6ENF51R0	M 51 OHM, 1/10W	
R1834	ERJ6ENF51R0	M 51 OHM, 1/10W	
R1835	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1836	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1837	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1838	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1839	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1840	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1841	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1842	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1844	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1849	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1850	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1851	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1852	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1853	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1854	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1855	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1856	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1857	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1858	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1859	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1860	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1861	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1862	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1864	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1865	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1866	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R1867	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1868	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1869	D1HG2208A002	RESISTOR	
R1870	D1HG2208A002	RESISTOR	
R1871	D1HG2208A002	RESISTOR	
R1872	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1873	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1874	D1HG2208A002	RESISTOR	
R1875	D1HG2208A002	RESISTOR	
R1876	D1HG2208A002	RESISTOR	
R1877	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1878	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1879	EXB28V220J	RESISTOR ARRAY	
R1882	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1883	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1884	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1885	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1886	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1887	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1888	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1889	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1890	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1892	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1893	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1894	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1895	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1896	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1897	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1898	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1899	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1900	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1901	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1902	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1903	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1904	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1905	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1906	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1907	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1908	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1912	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1913	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1914	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1915	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1916	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1917	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1918	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1919	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1920	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1921	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1922	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1923	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1924	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1925	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1926	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1927	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1928	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1929	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1930	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1931	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1932	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1933	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1935	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1936	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1939	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1940	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1941	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1943	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1945	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1946	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1947	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1948	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1949	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1950	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1952	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1954	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1955	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R3001	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R3002	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R3003	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3004	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3005	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3006	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3007	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3008	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3009	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3010	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R3011	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R3015	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R3016	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3017	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3018	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R3019	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R3023	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3024	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3025	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3026	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3027	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3028	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3029	ERJ3GEYJ103	M 10K OHM,J,1/16W	



Ref. No.	Part No.	Part Name & Description	Remarks
R3030	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3031	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3032	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3033	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3034	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3035	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3036	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3037	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3038	EXB38V220J	RESISTOR ARRAY	
R3039	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3040	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3041	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3042	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3043	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3044	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3133	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3134	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3135	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3174	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3175	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3176	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3184	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3185	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3186	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3501	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3502	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R3503	ERJ6ENF1001	M 1KOHM, 1/10W	
R3504	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R3505	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R3506	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R3507	ERJ6ENF3302	M 33KOHM, 1/10W	
R3508	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R3509	ERJ6ENF1001	M 1KOHM, 1/10W	
R3510	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R3511	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R3512	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R3513	ERJ6ENF3302	M 33KOHM, 1/10W	
R3514	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3515	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3516	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3517	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R3518	ERJ6ENF1001	M 1KOHM, 1/10W	
R3519	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R3520	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R3521	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R3522	ERJ6ENF3302	M 33KOHM, 1/10W	
R3523	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3524	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3525	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3526	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3527	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3528	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3529	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3530	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Remarks
R3531	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3701	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R3702	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R9601	ERX2SJR47	M0.47 OHM, J, 2W	
[CAPACITORS]			
C1001	ECJ0EF1C104Z	C 0.1UF, 16V	
C1002	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1003	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1004	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1005	ECJ1XC1H150J	C 150PF, 50V	
C1006	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1007	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1008	ECUX1H120JCV	C 12PF, 50V	
C1009	ECJ0EF1C104Z	C 0.1UF, 16V	
C1010	ECJ2XC1H102J	C 1000PF, J, 50V	
C1011	ECUX1H270JCV	C 27PF, 50V	
C1012	ECUX1H270JCV	C 27PF, 50V	
C1013	ECJ0EF1C104Z	C 0.1UF, 16V	
C1014	ECJ1XC1H150J	C 150PF, 50V	
C1015	ECUX1H120JCV	C 12PF, 50V	
C1016	ECJ0EF1C104Z	C 0.1UF, 16V	
C1017	EEVHB0G101	E 100UF, 4V	
C1018	ECJ1XC1H080C	C 8 PF, 50V	
C1019	ECJ1XC1H080C	C 8 PF, 50V	
C1020	ECJ0EF1C104Z	C 0.1UF, 16V	
C1021	ECJ0EF1C104Z	C 0.1UF, 16V	
C1022	EEVHB0G221	E 220UF, 4V	
C1023	EEVHB0G221	E 220UF, 4V	
C1024	ECJ0EF1C104Z	C 0.1UF, 16V	
C1025	ECJ0EF1C104Z	C 0.1UF, 16V	
C1026	EEVHB0J470	E 47UF, 6.3V	
C1027	ECJ0EF1C104Z	C 0.1UF, 16V	
C1028	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1029	EEVHB0J330	E 33UF, 6.3V	
C1030	EEVHB0J330	E 33UF, 6.3V	
C1031	ECJ1XC1H040C	C 4 PF, 50V	
C1032	ECJ2XC1H152J	C 1500PF, J, 50V	
C1033	ECJ1XC1H151J	C 150PF, 50V	
C1034	EEVHB0G101	E 100UF, 4V	
C1035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1036	EEVHB0G101	E 100UF, 4V	
C1037	ECJ0EF1C104Z	C 0.1UF, 16V	
C1038	ECJ0EB1C103K	C 0.01UF, 16V	
C1039	ECJ1XC1H151J	C 150PF, 50V	
C1040	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1041	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1042	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1043	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1044	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1045	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1046	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1047	ECJ1XB1C103K	C 0.01UF, K, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1048	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1049	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1050	ECJ0EB1C103K	C 0.01UF, K, 16V	
C1051	ECJ1XF1C474Z	C 0.47UF, Z, 16V	
C1052	ECJ0EF1C104Z	C 0.1UF, 16V	
C1053	ECJ0EF1C104Z	C 0.1UF, 16V	
C1054	ECJ0EF1C104Z	C 0.1UF, 16V	
C1055	ECJ0EF1C104Z	C 0.1UF, 16V	
C1056	ECJ0EF1C104Z	C 0.1UF, 16V	
C1057	ECJ0EF1C104Z	C 0.1UF, 16V	
C1058	ECJ0EF1C104Z	C 0.1UF, 16V	
C1059	ECJ0EF1C104Z	C 0.1UF, 16V	
C1060	ECJ0EF1C104Z	C 0.1UF, 16V	
C1061	ECJ0EF1C104Z	C 0.1UF, 16V	
C1062	ECJ0EF1C104Z	C 0.1UF, 16V	
C1063	ECJ0EF1C104Z	C 0.1UF, 16V	
C1064	ECJ0EF1C104Z	C 0.1UF, 16V	
C1065	ECJ0EF1C104Z	C 0.1UF, 16V	
C1066	ECJ0EB1C103K	C 0.01UF, 16V	
C1067	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1068	ECJ0EB1C103K	C 0.01UF, 16V	
C1069	EEEHP1C100	E 10UF, 16V	
C1070	EEEHP1C100	E 10UF, 16V	
C1071	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1072	EEVHB1C101	E 100UF, 16V	
C1073	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1074	EEVHB1C101	E 100UF, 16V	
C1075	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1076	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1077	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1078	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1079	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1080	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1081	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1082	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1083	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1085	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1086	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1087	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1088	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1089	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1090	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1091	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1092	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1093	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1094	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1097	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1099	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1100	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1101	ECJ1XF1A105Z	C 100UF, 10V	
C1102	ECJ1XF1A105Z	C 100UF, 10V	
C1103	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1104	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1105	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1106	ECJ0EF1C104Z	C 0.1UF, 16V	
C1107	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1108	EEVHB0J330	E 33UF, 6.3V	
C1109	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1110	EEVHB0J330	E 33UF, 6.3V	
C1111	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1112	EEVHB0J330	E 33UF, 6.3V	
C1113	ECJ0EF1C104Z	C 0.1UF, 16V	
C1114	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1115	ECJ0EF1C104Z	C 0.1UF, 16V	
C1116	ECJ0EF1C104Z	C 0.1UF, 16V	
C1117	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1118	EEVHB0J330	E 33UF, 6.3V	
C1119	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1120	EEVHB0J330	E 33UF, 6.3V	
C1121	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1122	EEVHB0J330	E 33UF, 6.3V	
C1123	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1124	EEVHB0J330	E 33UF, 6.3V	
C1125	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1126	EEVHB0J330	E 33UF, 6.3V	
C1127	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1128	EEVHB0J330	E 33UF, 6.3V	
C1129	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1130	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1131	EEVHB0J330	E 33UF, 6.3V	
C1132	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1133	EEVHB0J330	E 33UF, 6.3V	
C1134	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1135	EEVHB0J330	E 33UF, 6.3V	
C1136	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1137	EEVHB1A221	E 220UF, 10V	
C1138	EEVHB1A221	E 220UF, 10V	
C1139	EEVHB1A221	E 220UF, 10V	
C1140	ECJ1XF1A105Z	C 100UF, 10V	
C1141	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1142	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1143	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1144	ECJ1XF1A105Z	C 100UF, 10V	
C1145	ECJ0EF1C104Z	C 0.1UF, 16V	
C1146	EEVHP1C100	E 10UF, 16V	
C1147	EEVHP1C100	E 10UF, 16V	
C1148	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1149	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1150	ECJ0EF1C104Z	C 0.1UF, 16V	
C1151	ECJ0EF1C104Z	C 0.1UF, 16V	
C1152	ECJ0EF1C104Z	C 0.1UF, 16V	
C1153	ECJ0EF1C104Z	C 0.1UF, 16V	
C1154	ECJ0EF1C104Z	C 0.1UF, 16V	
C1155	ECJ0EF1C104Z	C 0.1UF, 16V	
C1158	ECJ0EF1C104Z	C 0.1UF, 16V	
C1159	ECJ0EF1C104Z	C 0.1UF, 16V	
C1160	ECJ0EF1C104Z	C 0.1UF, 16V	
C1161	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1162	ECJ0EF1C104Z	C 0.1UF, 16V	
C1163	ECJ0EF1C104Z	C 0.1UF, 16V	
C1164	ECJ0EF1C104Z	C 0.1UF, 16V	
C1165	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1167	EEVHB0J330	E 33UF, 6.3V	
C1168	ECJ1XB1C223K	C 0.22UF, K, 16V	
C1169	ECJ1XB1C223K	C 0.22UF, K, 16V	
C1170	ECJ1XB1C223K	C 0.22UF, K, 16V	
C1172	ECJ0EB1C822K	CAPACITOR	
C1173	ECJ0EB1A823K	CAPACITOR	
C1174	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1175	EEVHB0J330	E 33UF, 6.3V	
C1176	ECJ1XB0J105K	C 1UF, Z, 6.3V	
C1177	ECJ0EF1C104Z	C 0.1UF, 16V	
C1178	EEVHB0J470	E 47UF, 6.3V	
C1179	ECJ0EF1C104Z	C 0.1UF, 16V	
C1180	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1181	ECJ1XF1A105Z	C 100UF, 10V	
C1182	ECJ1XF1A105Z	C 100UF, 10V	
C1183	ECJ1XF1A105Z	C 100UF, 10V	
C1184	ECJ1XF1A105Z	C 100UF, 10V	
C1185	ECJ1XF1A105Z	C 100UF, 10V	
C1186	EEVHP1C100	E 10UF, 16V	
C1187	EEVHP1C100	E 10UF, 16V	
C1188	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1189	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1190	EEVHP1C100	E 10UF, 16V	
C1191	EEVHP1C100	E 10UF, 16V	
C1192	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1193	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1194	EEVHB1C100	E 10UF, 16V	
C1195	ECJ1XC1H151J	C 150PF, 50V	
C1196	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1197	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1200	ECJ2XB1H472K	C 2700PF, K, 50V	
C1201	ECJ0EB1C103K	C 0.01UF, 16V	
C1202	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1203	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1204	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1205	ECJ1XC1H221J	C 220PF, 50V	
C1206	ECJ2XC1H271J	C 270PF, J, 50V	
C1207	EEVHB1C100	E 10UF, 16V	
C1208	ECJ0EF1C104Z	C 0.1UF, 16V	
C1209	ECJ1XC1H331J	C 330PF, J, 50V	
C1210	ECJ1XF1A105Z	C 100UF, 10V	
C1211	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1212	ECJ0EF1C104Z	C 0.1UF, 16V	
C1213	ECJ0EF1C104Z	C 0.1UF, 16V	
C1214	ECJ0EF1C104Z	C 0.1UF, 16V	
C1215	ECJ0EF1C104Z	C 0.1UF, 16V	
C1216	ECJ0EF1C104Z	C 0.1UF, 16V	
C1217	ECJ0EF1C104Z	C 0.1UF, 16V	
C1218	ECJ0EF1C104Z	C 0.1UF, 16V	
C1219	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1220	ECJ0EF1C104Z	C 0.1UF, 16V	
C1221	ECJ0EF1C104Z	C 0.1UF, 16V	
C1222	ECJ0EF1C104Z	C 0.1UF, 16V	
C1223	ECJ0EF1C104Z	C 0.1UF, 16V	
C1224	ECJ0EF1C104Z	C 0.1UF, 16V	
C1225	ECJ0EF1C104Z	C 0.1UF, 16V	
C1226	ECJ0EF1C104Z	C 0.1UF, 16V	
C1227	ECJ0EF1C104Z	C 0.1UF, 16V	
C1228	ECJ0EF1C104Z	C 0.1UF, 16V	
C1229	ECJ0EF1C104Z	C 0.1UF, 16V	
C1230	ECJ0EF1C104Z	C 0.1UF, 16V	
C1231	ECJ0EF1C104Z	C 0.1UF, 16V	
C1232	ECJ0EF1C104Z	C 0.1UF, 16V	
C1233	ECJ0EF1C104Z	C 0.1UF, 16V	
C1234	ECJ0EF1C104Z	C 0.1UF, 16V	
C1235	ECJ0EF1C104Z	C 0.1UF, 16V	
C1236	ECJ0EF1C104Z	C 0.1UF, 16V	
C1237	ECJ0EF1C104Z	C 0.1UF, 16V	
C1238	ECJ0EF1C104Z	C 0.1UF, 16V	
C1239	ECJ0EF1C104Z	C 0.1UF, 16V	
C1240	ECJ0EF1C104Z	C 0.1UF, 16V	
C1241	ECJ0EF1C104Z	C 0.1UF, 16V	
C1242	ECJ0EF1C104Z	C 0.1UF, 16V	
C1243	ECJ0EF1C104Z	C 0.1UF, 16V	
C1244	ECJ0EF1C104Z	C 0.1UF, 16V	
C1245	ECJ0EF1C104Z	C 0.1UF, 16V	
C1246	ECJ0EF1C104Z	C 0.1UF, 16V	
C1247	ECJ0EF1C104Z	C 0.1UF, 16V	
C1248	ECJ0EF1C104Z	C 0.1UF, 16V	
C1249	ECJ0EF1C104Z	C 0.1UF, 16V	
C1250	ECJ0EF1C104Z	C 0.1UF, 16V	
C1251	ECJ0EF1C104Z	C 0.1UF, 16V	
C1252	ECJ0EF1C104Z	C 0.1UF, 16V	
C1253	ECJ0EF1C104Z	C 0.1UF, 16V	
C1254	ECJ0EF1C104Z	C 0.1UF, 16V	
C1255	ECJ0EF1C104Z	C 0.1UF, 16V	
C1256	ECJ0EF1C104Z	C 0.1UF, 16V	
C1257	ECJ0EF1C104Z	C 0.1UF, 16V	
C1258	ECJ0EF1C104Z	C 0.1UF, 16V	
C1259	ECJ0EF1C104Z	C 0.1UF, 16V	
C1260	ECJ0EF1C104Z	C 0.1UF, 16V	
C1262	ECJ1XC1H471J	C 470PF, J, 50V	
C1263	ECJ1XC1H121J	C 120PF, 50V	
C1264	ECUX1H120JCV	C 12PF, 50V	
C1265	ECUX1H120JCV	C 12PF, 50V	
C1266	ECJ1XF1A105Z	C 100UF, 10V	
C1267	ECJ1XF1A105Z	C 100UF, 10V	
C1268	ECJ1XF1A105Z	C 100UF, 10V	
C1269	ECJ1XF1A105Z	C 100UF, 10V	
C1270	ECJ1XF1A105Z	C 100UF, 10V	
C1271	ECJ1XF1A105Z	C 100UF, 10V	
C1272	ECJ1XF1A105Z	C 100UF, 10V	
C1273	ECJ1XF1A105Z	C 100UF, 10V	
C1274	ECJ1XF1A105Z	C 100UF, 10V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1275	ECJ1XF1A105Z	C 100UF, 10V	
C1276	ECJ1XF1A105Z	C 100UF, 10V	
C1277	EEVHB0J470	E 47UF, 6.3V	
C1278	EEVHB0G101	E 100UF, 4V	
C1279	EEVHB0G101	E 100UF, 4V	
C1280	ECJ0EB1C103K	C 0.01UF, 16V	
C1281	ECJ0EB1C103K	C 0.01UF, 16V	
C1282	ECJ0EB1C103K	C 0.01UF, 16V	
C1283	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1284	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1285	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1286	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1287	ECJ1XB1A334K	C 0.22UF, 10V	
C1288	ECJ1XB1A334K	C 0.22UF, 10V	
C1289	ECJ0EF1C104Z	C 0.1UF, 16V	
C1290	ECJ0EF1C104Z	C 0.1UF, 16V	
C1291	EEVHB0J330	E 33UF, 6.3V	
C1292	EEVHB0J470	E 47UF, 6.3V	
C1293	EEFCD0J470R	CAPACITOR	
C1296	ECJ0EF1C104Z	C 0.1UF, 16V	
C1297	ECJ0EF1C104Z	C 0.1UF, 16V	
C1298	ECJ0EF1C104Z	C 0.1UF, 16V	
C1299	EEVHB0J101	E 100UF, 6.3V	
C1303	ECJ0EF1C104Z	C 0.1UF, 16V	
C1304	ECJ0EF1C104Z	C 0.1UF, 16V	
C1402	ECJ0EF1C104Z	C 0.1UF, 16V	
C1403	ECJ0EF1C104Z	C 0.1UF, 16V	
C1404	ECJ0EF1C104Z	C 0.1UF, 16V	
C1405	ECJ0EF1C104Z	C 0.1UF, 16V	
C1406	ECJ0EF1C104Z	C 0.1UF, 16V	
C1407	ECJ0EF1C104Z	C 0.1UF, 16V	
C1408	ECJ0EF1C104Z	C 0.1UF, 16V	
C1409	ECJ0EF1C104Z	C 0.1UF, 16V	
C1410	ECJ0EF1C104Z	C 0.1UF, 16V	
C1411	ECJ0EF1C104Z	C 0.1UF, 16V	
C1412	ECJ0EF1C104Z	C 0.1UF, 16V	
C1413	ECJ0EF1C104Z	C 0.1UF, 16V	
C1414	ECJ0EF1C104Z	C 0.1UF, 16V	
C1415	ECJ0EF1C104Z	C 0.1UF, 16V	
C1416	ECJ0EF1C104Z	C 0.1UF, 16V	
C1417	ECJ0EF1C104Z	C 0.1UF, 16V	
C1418	ECJ0EF1C104Z	C 0.1UF, 16V	
C1419	ECJ0EF1C104Z	C 0.1UF, 16V	
C1420	ECJ0EF1C104Z	C 0.1UF, 16V	
C1421	ECJ0EF1C104Z	C 0.1UF, 16V	
C1422	ECJ0EF1C104Z	C 0.1UF, 16V	
C1423	ECJ0EF1C104Z	C 0.1UF, 16V	
C1424	ECJ0EF1C104Z	C 0.1UF, 16V	
C1425	ECJ0EF1C104Z	C 0.1UF, 16V	
C1426	ECJ0EF1C104Z	C 0.1UF, 16V	
C1427	ECJ0EF1C104Z	C 0.1UF, 16V	
C1428	ECJ0EF1C104Z	C 0.1UF, 16V	
C1429	ECJ0EF1C104Z	C 0.1UF, 16V	
C1430	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1432	ECJ0EF1C104Z	C 0.1UF, 16V	
C1433	ECJ0EF1C104Z	C 0.1UF, 16V	
C1434	ECJ0EF1C104Z	C 0.1UF, 16V	
C1435	ECJ0EF1C104Z	C 0.1UF, 16V	
C1436	ECJ0EF1C104Z	C 0.1UF, 16V	
C1437	ECJ0EF1C104Z	C 0.1UF, 16V	
C1438	ECJ0EF1C104Z	C 0.1UF, 16V	
C1439	ECJ0EF1C104Z	C 0.1UF, 16V	
C1440	ECJ0EF1C104Z	C 0.1UF, 16V	
C1441	ECJ0EF1C104Z	C 0.1UF, 16V	
C1442	ECJ0EF1C104Z	C 0.1UF, 16V	
C1443	ECJ0EF1C104Z	C 0.1UF, 16V	
C1444	ECJ0EF1C104Z	C 0.1UF, 16V	
C1445	ECJ0EF1C104Z	C 0.1UF, 16V	
C1446	ECJ0EF1C104Z	C 0.1UF, 16V	
C1447	ECJ0EF1C104Z	C 0.1UF, 16V	
C1448	ECJ0EF1C104Z	C 0.1UF, 16V	
C1449	ECJ0EF1C104Z	C 0.1UF, 16V	
C1450	ECJ0EF1C104Z	C 0.1UF, 16V	
C1451	ECJ0EB1C103K	C 0.01UF, 16V	
C1452	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1453	ECJ1XB0J105K	C 1UF, Z, 6.3V	
C1454	F2H0G3300001	CAPACITOR	
C1455	F2H0J101A009	CAPACITOR	
C1456	ECJ1XC1H150J	C 150PF, 50V	
C1457	ECJ1XC1H150J	C 150PF, 50V	
C1458	F2G0J4700024	CAPACITOR	
C1459	EEVHB0J330	E 33UF, 6.3V	
C1461	ECJ1XB1C473K	C0.047UF, K, 16V	
C1462	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1464	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1465	F2G0J4700024	CAPACITOR	
C1466	ECUX1H120JCV	C 12PF, 50V	
C1467	ECUX1H120JCV	C 12PF, 50V	
C1468	EEVHB0J330	E 33UF, 6.3V	
C1470	ECJ1XB0J105K	C 1UF, Z, 6.3V	
C1472	EEVHB1E330	E 33UF, 25V	
C1473	EEVHB1E330	E 33UF, 25V	
C1474	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1475	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1482	ECJ0EF1C104Z	C 0.1UF, 16V	
C1483	ECJ0EF1C104Z	C 0.1UF, 16V	
C1484	ECJ0EF1C104Z	C 0.1UF, 16V	
C1485	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1486	EEVHB0J470	E 47UF, 6.3V	
C1488	EEVHB1E330	E 33UF, 25V	
C1489	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1501	ECJ0EF1C104Z	C 0.1UF, 16V	
C1502	ECJ0EF1C104Z	C 0.1UF, 16V	
C1506	EEVHB1E4R7	E 4.7UF, 25V	
C1508	EEVHB1A330	E 33UF, 10V	
C1511	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1512	EEVHB1A101	E 100UF, 10V	
C1514	EEVHB1E330	E 33UF, 25V	



Ref. No.	Part No.	Part Name & Description	Remarks
C1515	EEVHB1E330	E 33UF, 25V	
C1516	ECJ0EF1C104Z	C 0.1UF, 16V	
C1517	ECJ0EF1C104Z	C 0.1UF, 16V	
C1518	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1520	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1521	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1522	ECJ1XB0J105K	C 1UF, Z, 6.3V	
C1524	EEVHB1E330	E 33UF, 25V	
C1525	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1526	EEVHB1E330	E 33UF, 25V	
C1527	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1528	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1529	EEVHB1E330	E 33UF, 25V	
C1530	EEVHB1E330	E 33UF, 25V	
C1531	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1532	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1533	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1534	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1535	EEVHB1E330	E 33UF, 25V	
C1536	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1537	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1538	EEVHB1C101	E 100UF, 16V	
C1539	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1540	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1541	EEVHB1E330	E 33UF, 25V	
C1542	EEVHB1E330	E 33UF, 25V	
C1543	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1544	F4D276050001	CAPACITOR	
C1545	F4D276050001	CAPACITOR	
C1546	F4D276050001	CAPACITOR	
C1547	F4D276050001	CAPACITOR	
C1548	F4D276050001	CAPACITOR	
C1549	EEVHB1E330	E 33UF, 25V	
C1550	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1552	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1553	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1554	EEVHB0J470	E 47UF, 6.3V	
C1555	ECJ0EF1C104Z	C 0.1UF, 16V	
C1556	ECJ0EF1C104Z	C 0.1UF, 16V	
C1557	ECJ0EF1C104Z	C 0.1UF, 16V	
C1558	ECJ0EF1C104Z	C 0.1UF, 16V	
C1559	ECJ0EF1C104Z	C 0.1UF, 16V	
C1560	ECJ0EF1C104Z	C 0.1UF, 16V	
C1561	ECJ0EF1C104Z	C 0.1UF, 16V	
C1562	ECJ0EF1C104Z	C 0.1UF, 16V	
C1563	ECJ0EF1C104Z	C 0.1UF, 16V	
C1564	ECJ0EF1C104Z	C 0.1UF, 16V	
C1565	ECJ0EF1C104Z	C 0.1UF, 16V	
C1566	ECJ0EF1C104Z	C 0.1UF, 16V	
C1567	ECJ0EF1C104Z	C 0.1UF, 16V	
C1569	ECJ1XC1H220J	C 220PF, 50V	
C1570	ECJ1XC1H220J	C 220PF, 50V	
C1571	ECJ1XC1H220J	C 220PF, 50V	
C1572	ECJ1XC1H220J	C 220PF, 50V	


Ref. No.	Part No.	Part Name & Description	Remarks
C1573	ECJ1XC1H220J	C 220PF, 50V	
C1574	ECJ0EF1C104Z	C 0.1UF, 16V	
C1575	ECJ0EF1C104Z	C 0.1UF, 16V	
C1600	ECJ0EF1C104Z	C 0.1UF, 16V	
C1603	ECJ0EF1C104Z	C 0.1UF, 16V	
C1611	ECJ0EF1C104Z	C 0.1UF, 16V	
C1612	ECJ0EF1C104Z	C 0.1UF, 16V	
C1615	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1618	EEVHB0J470	E 47UF, 6.3V	
C1621	EEVHB0J470	E 47UF, 6.3V	
C1622	EEVHB0J470	E 47UF, 6.3V	
C1623	ECJ0EF1C104Z	C 0.1UF, 16V	
C1624	ECJ0EF1C104Z	C 0.1UF, 16V	
C1625	ECJ0EF1C104Z	C 0.1UF, 16V	
C1626	ECJ0EF1C104Z	C 0.1UF, 16V	
C1627	ECJ0EF1C104Z	C 0.1UF, 16V	
C1628	ECJ0EF1C104Z	C 0.1UF, 16V	
C1629	ECJ0EF1C104Z	C 0.1UF, 16V	
C1630	ECJ0EF1C104Z	C 0.1UF, 16V	
C1631	ECJ0EF1C104Z	C 0.1UF, 16V	
C1632	ECJ0EF1C104Z	C 0.1UF, 16V	
C1633	ECJ0EF1C104Z	C 0.1UF, 16V	
C1634	ECJ0EF1C104Z	C 0.1UF, 16V	
C1635	ECJ0EF1C104Z	C 0.1UF, 16V	
C1636	ECJ0EF1C104Z	C 0.1UF, 16V	
C1637	ECJ0EF1C104Z	C 0.1UF, 16V	
C1638	ECJ0EF1C104Z	C 0.1UF, 16V	
C1639	ECJ0EF1C104Z	C 0.1UF, 16V	
C1640	ECJ0EF1C104Z	C 0.1UF, 16V	
C1641	ECJ0EF1C104Z	C 0.1UF, 16V	
C1642	ECJ0EF1C104Z	C 0.1UF, 16V	
C1643	ECJ0EF1C104Z	C 0.1UF, 16V	
C1644	ECJ0EF1C104Z	C 0.1UF, 16V	
C1645	ECJ0EF1C104Z	C 0.1UF, 16V	
C1646	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1647	ECJ0EF1C104Z	C 0.1UF, 16V	
C1648	ECJ0EF1C104Z	C 0.1UF, 16V	
C1649	ECJ0EF1C104Z	C 0.1UF, 16V	
C1650	ECJ0EF1C104Z	C 0.1UF, 16V	
C1651	ECJ0EF1C104Z	C 0.1UF, 16V	
C1652	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1653	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1654	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1655	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1656	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1657	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1658	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1659	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1660	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1661	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1662	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1663	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1664	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1665	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1666	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1667	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1668	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1669	ECJ1XF1A105Z	C 100UF, 10V	
C1670	ECJ0EF1C104Z	C 0.1UF, 16V	
C1671	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1672	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1673	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1674	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1675	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1676	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1677	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1678	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1679	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1680	EEVHB1E4R7	E 4.7UF, 25V	
C1681	EEVHB1E4R7	E 4.7UF, 25V	
C1682	EEVHB1E4R7	E 4.7UF, 25V	
C1683	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1684	ECJ0EF1C104Z	C 0.1UF, 16V	
C1685	ECJ0EF1C104Z	C 0.1UF, 16V	
C1686	ECJ0EF1C104Z	C 0.1UF, 16V	
C1687	ECJ0EF1C104Z	C 0.1UF, 16V	
C1688	ECJ0EF1C104Z	C 0.1UF, 16V	
C1689	ECJ0EF1C104Z	C 0.1UF, 16V	
C1690	ECJ0EF1C104Z	C 0.1UF, 16V	
C1691	ECJ0EF1C104Z	C 0.1UF, 16V	
C1692	ECJ0EF1C104Z	C 0.1UF, 16V	
C1693	ECJ0EF1C104Z	C 0.1UF, 16V	
C1694	ECJ0EF1C104Z	C 0.1UF, 16V	
C1695	ECJ0EF1C104Z	C 0.1UF, 16V	
C1696	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1697	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1698	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1699	EEVHB1E4R7	E 4.7UF, 25V	
C1700	ECJ0EF1C104Z	C 0.1UF, 16V	
C1701	ECJ0EF1C104Z	C 0.1UF, 16V	
C1702	ECJ0EF1C104Z	C 0.1UF, 16V	
C1703	ECJ0EF1C104Z	C 0.1UF, 16V	
C1704	ECJ0EF1C104Z	C 0.1UF, 16V	
C1705	ECJ0EF1C104Z	C 0.1UF, 16V	
C1706	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1707	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1708	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1709	EEVHB1E330	E 33UF, 25V	
C1710	EEVHB1E330	E 33UF, 25V	
C1711	EEVHB1E330	E 33UF, 25V	
C1712	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1713	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1714	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1715	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1716	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1717	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1718	EEVHB1E330	E 33UF, 25V	
C1719	EEVHB1E330	E 33UF, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1720	EEVHB1E330	E 33UF, 25V	
C1801	ECJ1XC1H120J	C 120PF, 50V	
C1802	ECJ1XC1H120J	C 120PF, 50V	
C1803	EEVHB0J470	E 47UF, 6.3V	
C1804	EEVHB0J470	E 47UF, 6.3V	
C1805	ECJ0EF1C104Z	C 0.1UF, 16V	
C1806	ECJ0EF1C104Z	C 0.1UF, 16V	
C1807	ECJ0EF1C104Z	C 0.1UF, 16V	
C1808	EEVHB0G221	E 220UF, 4V	
C1809	ECJ0EF1C104Z	C 0.1UF, 16V	
C1810	ECJ0EF1C104Z	C 0.1UF, 16V	
C1811	ECJ0EF1C104Z	C 0.1UF, 16V	
C1812	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1813	ECJ0EF1C104Z	C 0.1UF, 16V	
C1814	ECJ0EF1C104Z	C 0.1UF, 16V	
C1815	ECJ0EF1C104Z	C 0.1UF, 16V	
C1816	ECJ0EF1C104Z	C 0.1UF, 16V	
C1817	ECJ0EF1C104Z	C 0.1UF, 16V	
C1818	ECJ0EF1C104Z	C 0.1UF, 16V	
C1819	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1820	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1821	ECJ0EF1C104Z	C 0.1UF, 16V	
C1822	EEVHB0G221	E 220UF, 4V	
C1823	EEVHB1C470	E 47UF, 16V	
C1824	ECJ0EF1C104Z	C 0.1UF, 16V	
C1825	ECJ0EF1C104Z	C 0.1UF, 16V	
C1826	ECJ0EF1C104Z	C 0.1UF, 16V	
C1827	ECJ0EF1C104Z	C 0.1UF, 16V	
C1828	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1829	ECJ0EF1C104Z	C 0.1UF, 16V	
C1830	EEVHB0G221	E 220UF, 4V	
C1831	EEVHB0G221	E 220UF, 4V	
C1832	ECJ0EF1C104Z	C 0.1UF, 16V	
C1833	ECJ0EF1C104Z	C 0.1UF, 16V	
C1834	ECJ0EF1C104Z	C 0.1UF, 16V	
C1835	ECJ0EF1C104Z	C 0.1UF, 16V	
C1836	ECJ0EF1C104Z	C 0.1UF, 16V	
C1837	ECJ0EF1C104Z	C 0.1UF, 16V	
C1838	ECJ0EF1C104Z	C 0.1UF, 16V	
C1839	EEVHB1C470	E 47UF, 16V	
C1840	ECJ0EF1C104Z	C 0.1UF, 16V	
C1841	EEVHB0J470	E 47UF, 6.3V	
C1842	EEVHB0J470	E 47UF, 6.3V	
C1843	ECJ0EF1C104Z	C 0.1UF, 16V	
C1844	ECJ0EF1C104Z	C 0.1UF, 16V	
C1845	ECJ0EF1C104Z	C 0.1UF, 16V	
C1846	ECJ0EF1C104Z	C 0.1UF, 16V	
C1847	ECJ0EF1C104Z	C 0.1UF, 16V	
C1848	ECJ0EF1C104Z	C 0.1UF, 16V	
C1849	EEVHB0J470	E 47UF, 6.3V	
C1850	EEVHB0J470	E 47UF, 6.3V	
C1851	ECJ0EF1C104Z	C 0.1UF, 16V	
C1852	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1853	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1854	ECJ0EF1C104Z	C 0.1UF, 16V	
C1855	ECJ0EF1C104Z	C 0.1UF, 16V	
C1856	ECJ0EF1C104Z	C 0.1UF, 16V	
C1858	EEFCD0K330R	CAPACITOR	
C1859	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3001	ECJ1XB1C103K	C 0.01UF, K, 16V	
C3002	EEVHB0J330	E 33UF, 6.3V	
C3003	ECJ1XB1C103K	C 0.01UF, K, 16V	
C3004	EEVHB0J330	E 33UF, 6.3V	
C3005	ECJ1XB1C103K	C 0.01UF, K, 16V	
C3006	EEVHB0J330	E 33UF, 6.3V	
C3007	ECJ1XF1A105Z	C 100UF, 10V	
C3008	EEVHB0J470	E 47UF, 6.3V	
C3009	EEVHB0J470	E 47UF, 6.3V	
C3010	ECJ2XB1H103K	C 0.01UF, K, 50V	
C3117	EEVHB0J221U	E 220UF, 6.3V	
C3118	EEVHB0J221U	E 220UF, 6.3V	
C3119	EEVHB0J221U	E 220UF, 6.3V	
C3120	ECJ1XF1A105Z	C 100UF, 10V	
C3128	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3129	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3133	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3501	EEVHB0J470	E 47UF, 6.3V	
C3502	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3701	EEVHB0J470	E 47UF, 6.3V	
C3702	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C9610	F0C2G1050002	CAPACITOR	
C9617	F0C3C4720003	CAPACITOR	
C9618	F0C2J1540004	CAPACITOR	
C9619	F0C2J1540004	CAPACITOR	
[OTHERS]			
A1	K1MN30B00115	30P CONNECTOR	
A2	K1MN30B00115	30P CONNECTOR	
A3	K1MN30B00115	30P CONNECTOR	
A4	K1KA05B00153	5P CONNECTOR	
A6	K1KA14B00003	14P CONNECTOR	
A7	K1KA03B00098	3P CONNECTOR	
A8	K1KA10B00218	10P CONNECTOR	
A9	K1KA02B00051	2P CONNECTOR	
A10	K1KA02B00051	2P CONNECTOR	
A11	K1KA02B00051	2P CONNECTOR	
A13	K1KA10A00317	10P CONNECTOR	
A14	K1KA07A00132	7P CONNECTOR	
A15	TJS6A8780	3P CONNECTOR	K1KA03B00006
A16	TJS6A8780	3P CONNECTOR	K1KA03B00006
A17	K1KA03B00098	3P CONNECTOR	
A18	TJS6A8780	3P CONNECTOR	K1KA03B00006
A19	TJS6A8780	3P CONNECTOR	K1KA03B00006
A20	K1KA03B00098	3P CONNECTOR	
A21	TJSF43704	4P CONNECTOR	K1KA04B00137
A28	K1KA04B00007	4P CONNECTOR	
J1	K1KA10B00121	10P CONNECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
J2	K1KA07A00132	7P CONNECTOR	
R1	K1KA03B00098	3P CONNECTOR	
S1	K1KA10B00126	10P CONNECTOR	
B1001	BCR20V4	BATTERY HOLDER	
CF1001	D4B503390001	THERMISTOR	
JK1001	K1CB205B0001	CONNECTOR	
JK1002	K2HA102A0019	VIDEO AUDIO IN TERMINAL	
JK1003	K2HC206B0003	CONNECTOR	
JK1004	K1FB115B0079	RGB1 IN TERMINAL	
JK1005	K1FB115B0079	RGB2 IN/RGB OUT TERMINAL	
JK1006	K1FB124B0024	DVI IN TERMINAL	
JK1007	K1FB109B0069	RS232C I/F TERMINAL	
JK1008	K2LC108B0050	CONNECTOR TERMINAL	
JK3001	K1QBB5BA0001	RGB3 IN TERMINAL	
JK3002	K1FB109A0022	REMOTE IN TERMINAL	
JS1001	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1002	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1003	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1004	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1005	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1006	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1007	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1008	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1009	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1013	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1015	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1016	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1017	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1018	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1019	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1020	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1021	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1022	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1023	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1024	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1025	ERJ6GEY0R00	M 0 OHM,J,1/10W	
RM1001	B3RAD0000038	REMOTE CONTROL RECEIVER	
RM3701	B3RAD0000036	REMOTE CONTROL RECEIVER	
S3501	EVQPLHA15	SWITCH	
S3502	EVQPLHA15	SWITCH	
S3503	EVQPLHA15	SWITCH	
S3504	EVQPLHA15	SWITCH	
S3505	EVQPLHA15	SWITCH	
S3506	EVQPLHA15	SWITCH	
S3507	EVQPLHA15	SWITCH	
S3508	EVQPLHA15	SWITCH	
S3509	EVQPLHA15	SWITCH	
S3510	EVQPLHA15	SWITCH	
S3511	EVQPLHA15	SWITCH	
S3512	EVQPLHA15	SWITCH	
S3513	EVQPLHA15	SWITCH	

Ref. No.	Part No.	Part Name & Description	Remarks
S3514	EVQPLHA15	SWITCH	
S3515	EVQPLHA15	SWITCH	
S9602	A9BZ00000010	SPARK GAP	
T9604	G4F3A0000002	TRANS	
X1001	H0J420500001	CRYSTAL	
X1002	H0J202500002	CRYSTAL	
X1003	H0J143500016	CRYSTAL	
X1005	H0J147500021	CRYSTAL	
X1009	H0J327200038	CRYSTAL	
X1010	H1A6605B0005	CRYSTAL	
X1011	H0J250500042	CRYSTAL	
	ETXMM539MDF	CIRCUIT BOARD P	
RTL	TNPA2546	CIRCUIT BOARD S	
RTL	TNPA2623	CIRCUIT BOARD R	
RTL	TNPA2624	CIRCUIT BOARD J	
	TXANP02VJX7	CIRCUIT BOARD K	
RTL	TXANP04VJX7	CIRCUIT BOARD A	
	TXANPBQVJX7	CIRCUIT BOARD B/Q	

## 18. Schematic Diagram for printing with A4 size




## Schematic Diagram for Model PT-L785U

### IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTING YOURSELF FROM ELECTRICAL HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL PARTS OF THE SCHEMATIC.

## Schematic Diagram for Model PT-L785E

### Important Safety Notice

Components identified by the international symbol  have special characteristics important for safety. When replacing any of these components, use only the specified ones.






#### Notes:

##### 1. Resistor

All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an OHM [ $\Omega$ ] (K=1 000 M=1 000 000).

- |  |   |
|--|---|
|  : Nonflammable |  : Metal Oxide |
|  : Solid        |  : Metal Film  |
|  : Wire Wound   |  : Fuse        |


##### 2. Capacitor

- |  |  |
|--|--|
|  : Temperature Compensation |  : Electrolytic     |
|  : Polyester                |  : Bipolar          |
|  : Metalized Polyester     |  : Dipped Tantalum |
|  : Polypropylene          |  : Z-Type         |

##### 3. Coil

The unit of inductance is a H, unless otherwise noted.





##### 4. Test Point

-  : Test Point

##### 5. Voltage Measurement

The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the factory default.

##### 6. Color code for the links between diagrams and circuit boards

From/To		To/From	Color code
Block diagram		Schematic diagram	Magenta
Schematic diagram		Schematic diagram	Green
Schematic diagram		Circuit boards	Yellow
Schematic diagram		Waveforms	Cyan (Light blue)

##### 7. HOT and COLD indications

The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is a HOT and COLD circuit. Take the precautions below:

##### 8. This schematic diagram is the latest at the time of printing and the subject to change without notice.

#### Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow. Connect the ground of the instrument to the ground of the circuit.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.



**NOTICE**

IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK  
 USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF

**e**

ty. When replacing any of these components, use only the manufacturer's

IM [ $\Omega$ ] (K=1 000 M=1 000 000).

er's controls are set to the standard condition.

connection. The circuit is defined by HOT and COLD indications in the schematic

**notice.**

electric shock.

may blow. Connect the ground of instruments to the ground of the circuit being measured.

**F**

# E

D

**C**

# B

**A**





**F**

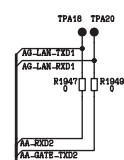


D

C

**B**

**A**



**F**

**E**

D

C

B

**A**

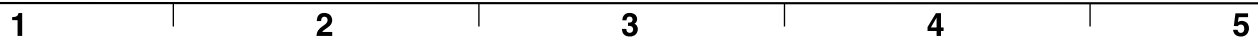








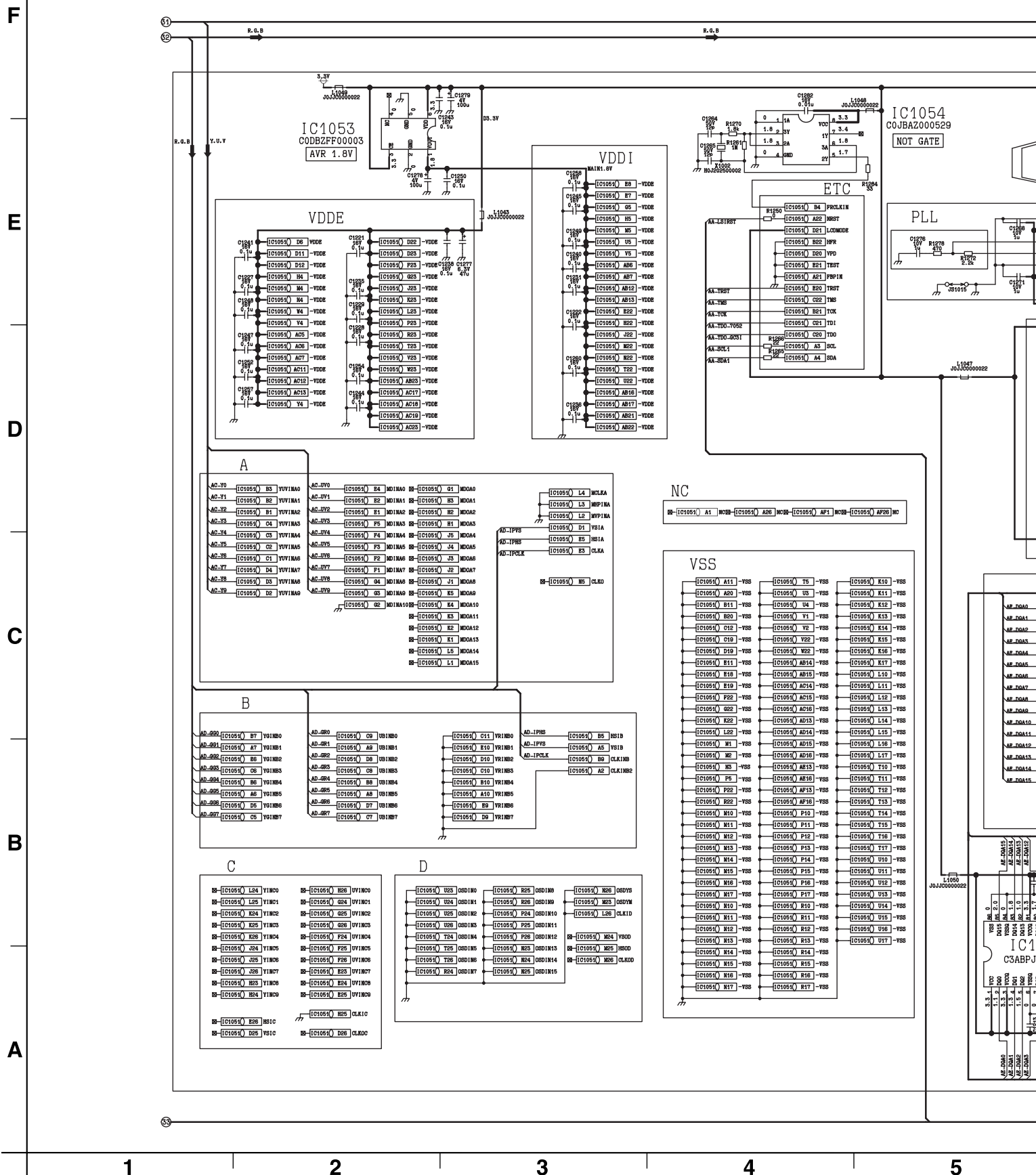
**A** — **B** — **C** — **D** — **E** — **F**







## A-P.C.Board TXANP04VJX7 (5/8)





**F**



D

C

B

A





**F**

**E**

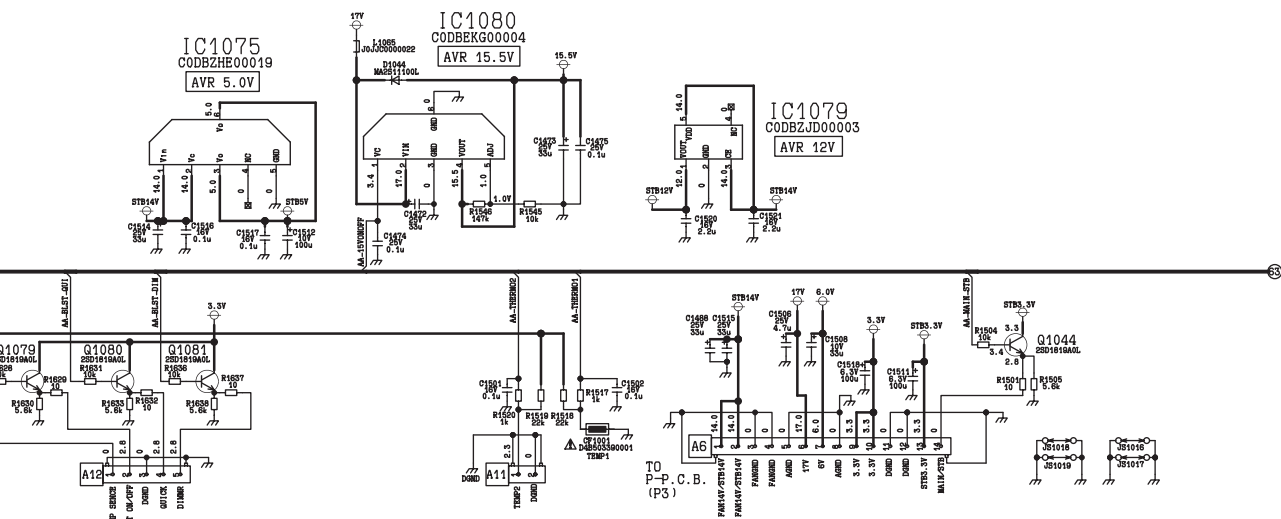
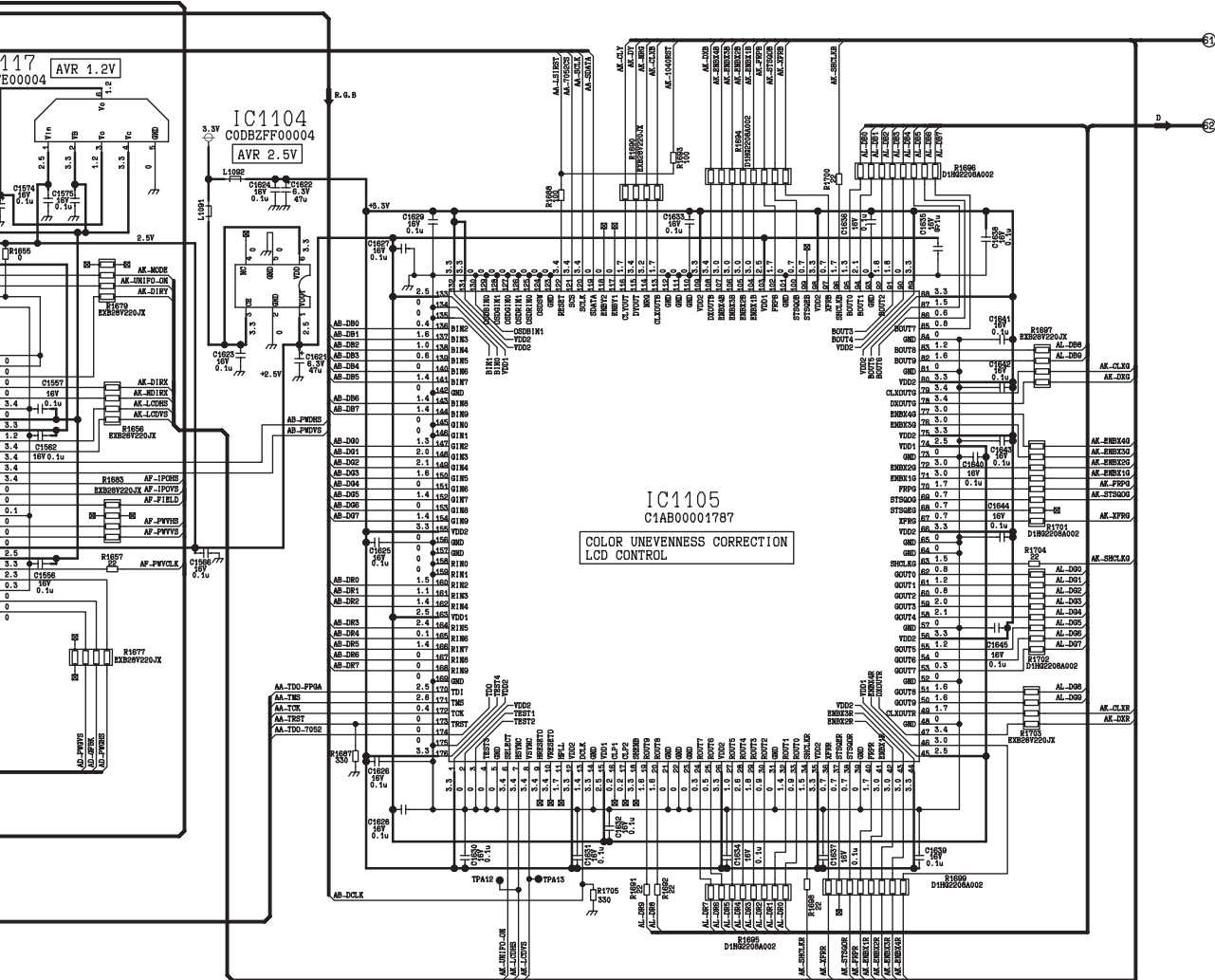
D

C

B

**A**





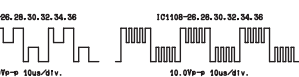
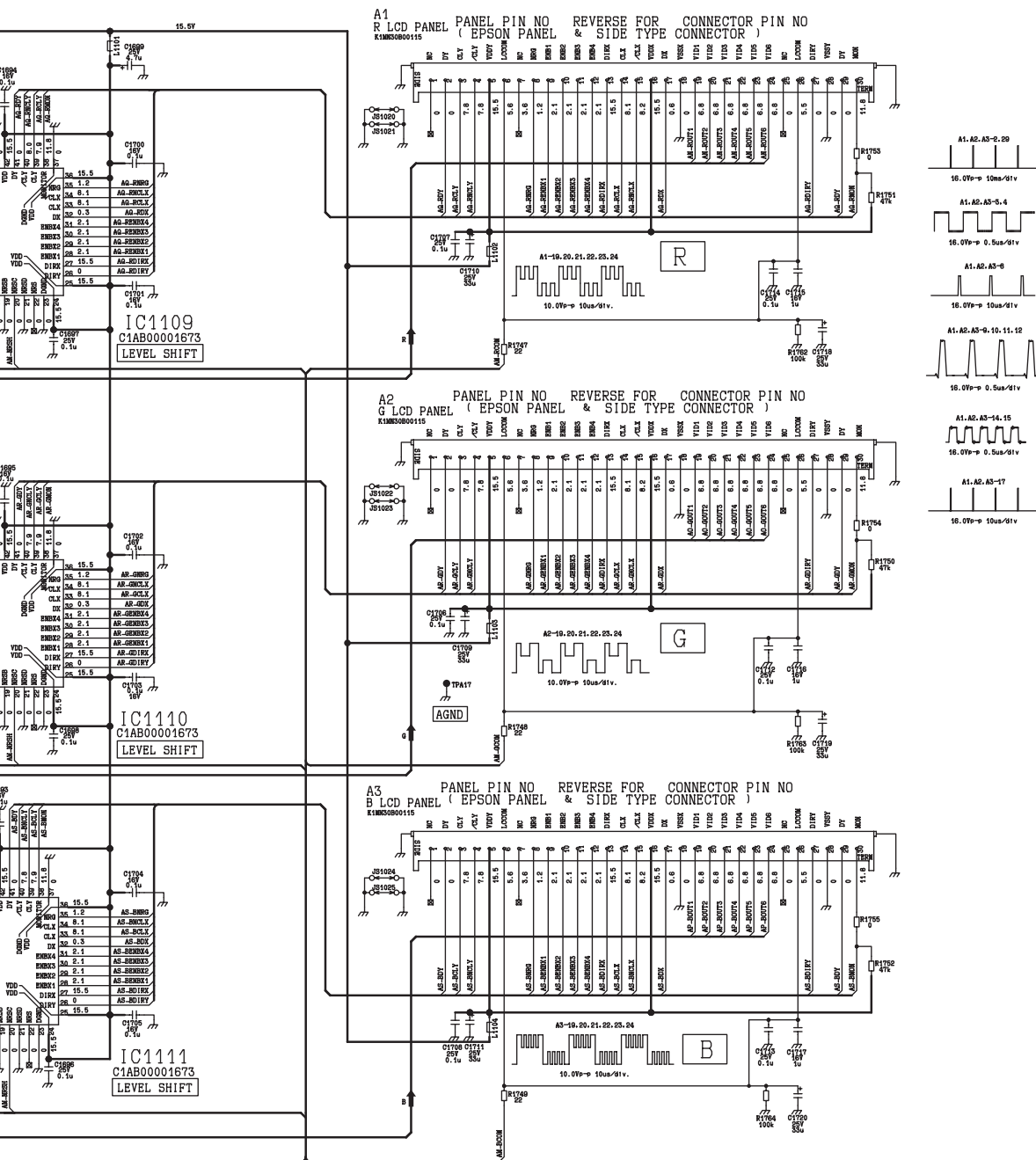
**F**

**C**

# B

# A



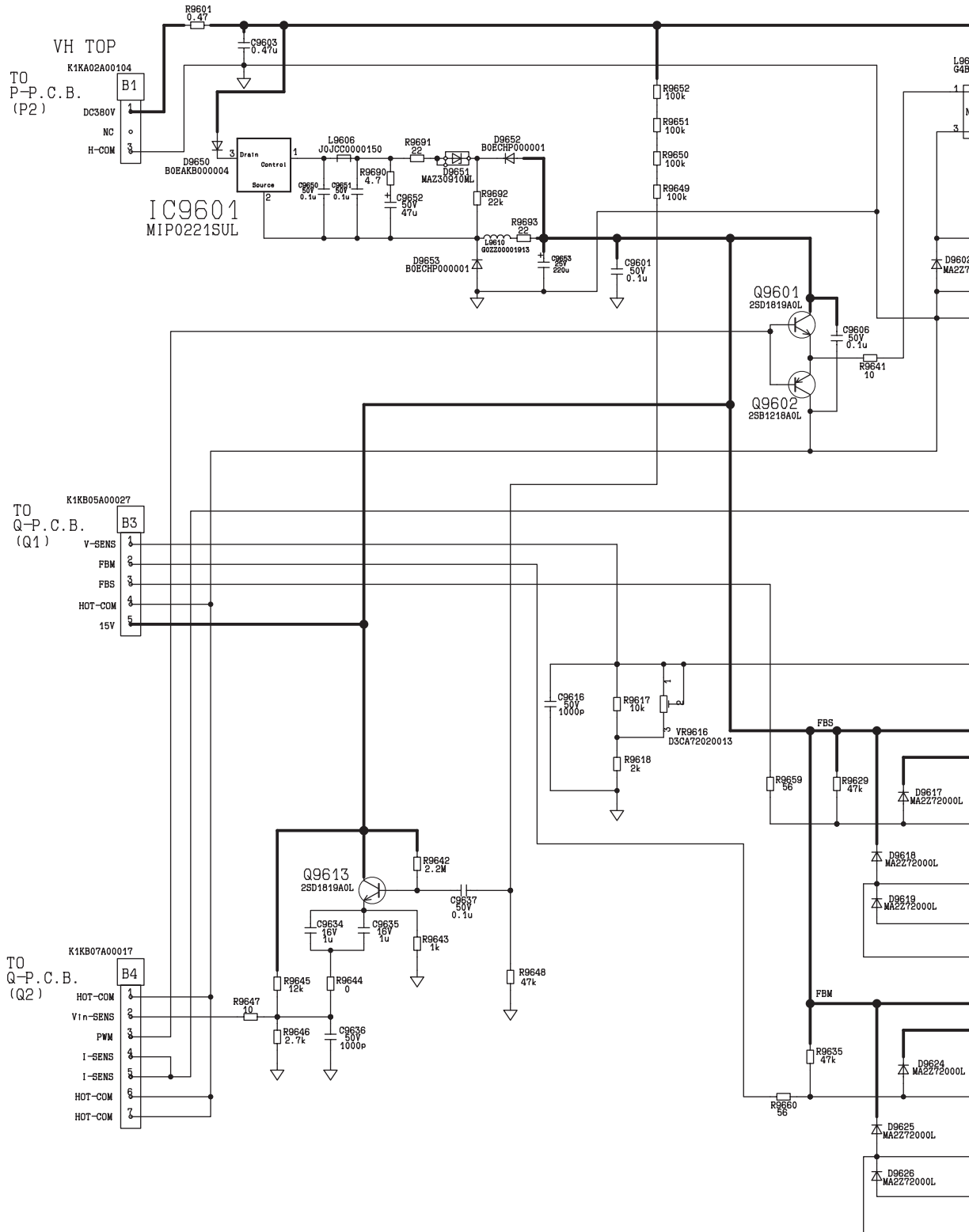


## 13.9. B-Module (1/2)

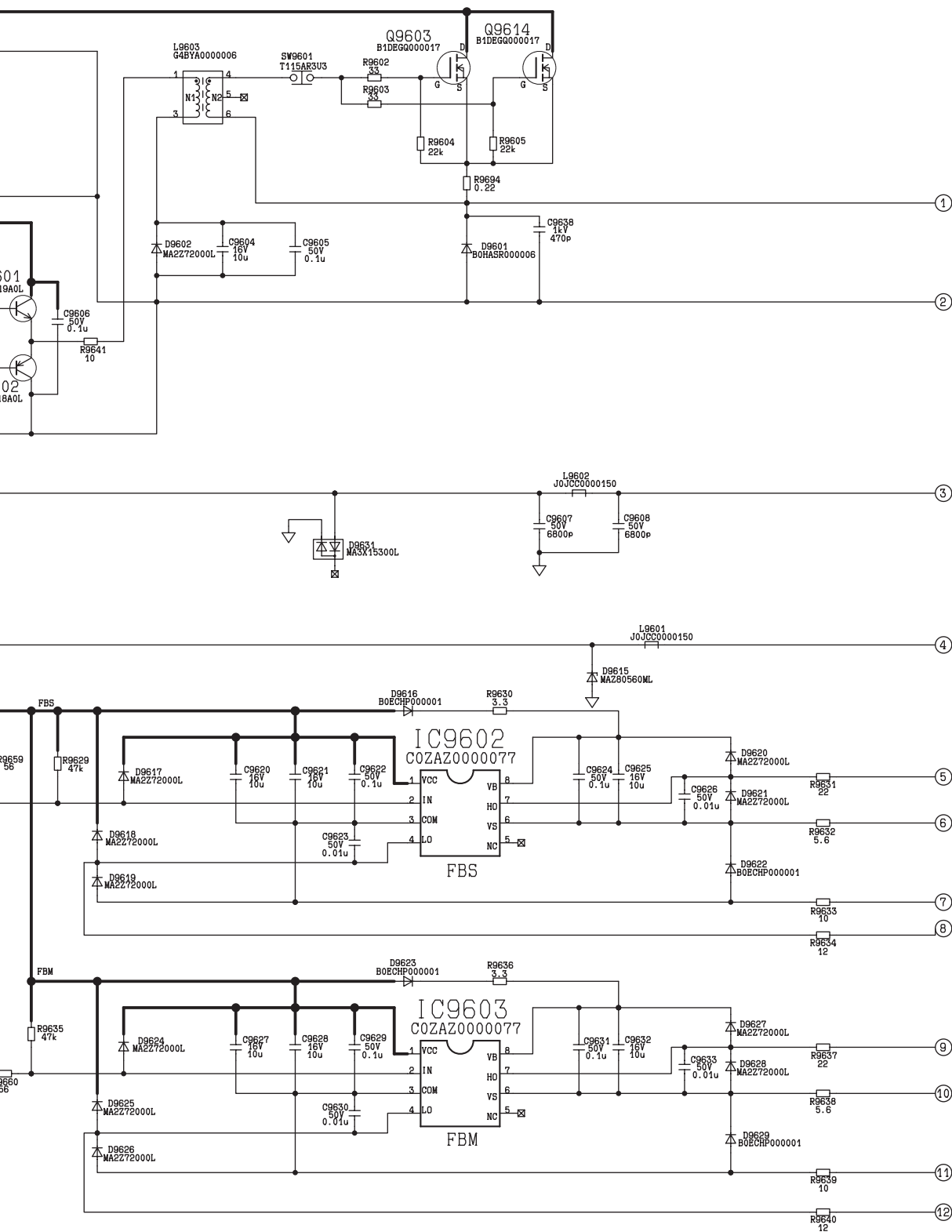
## B-Module TXANPBQVJX7 (1/2)

## Module Replacement

Only supplied components IC9601-03, Q9603-11, Q9614, D9601, D9604-09, D9601, C9610, C9617-19, L9604-05, T9604, S9602,



D9601, D9604-09, D9611-12,  
L-05, T9604, S9602, TXJ/L2VJX7



# 13.10. B-Module (2/2)



## B-Module TXANPBQVJX7 (2/2)

## Module Replacement

Only supplied components IC9601-03, Q9603-11, Q9614, D9601, D9604-09, D9601, C9610, C9617-19, L9604-05, T9604, S9602,

F

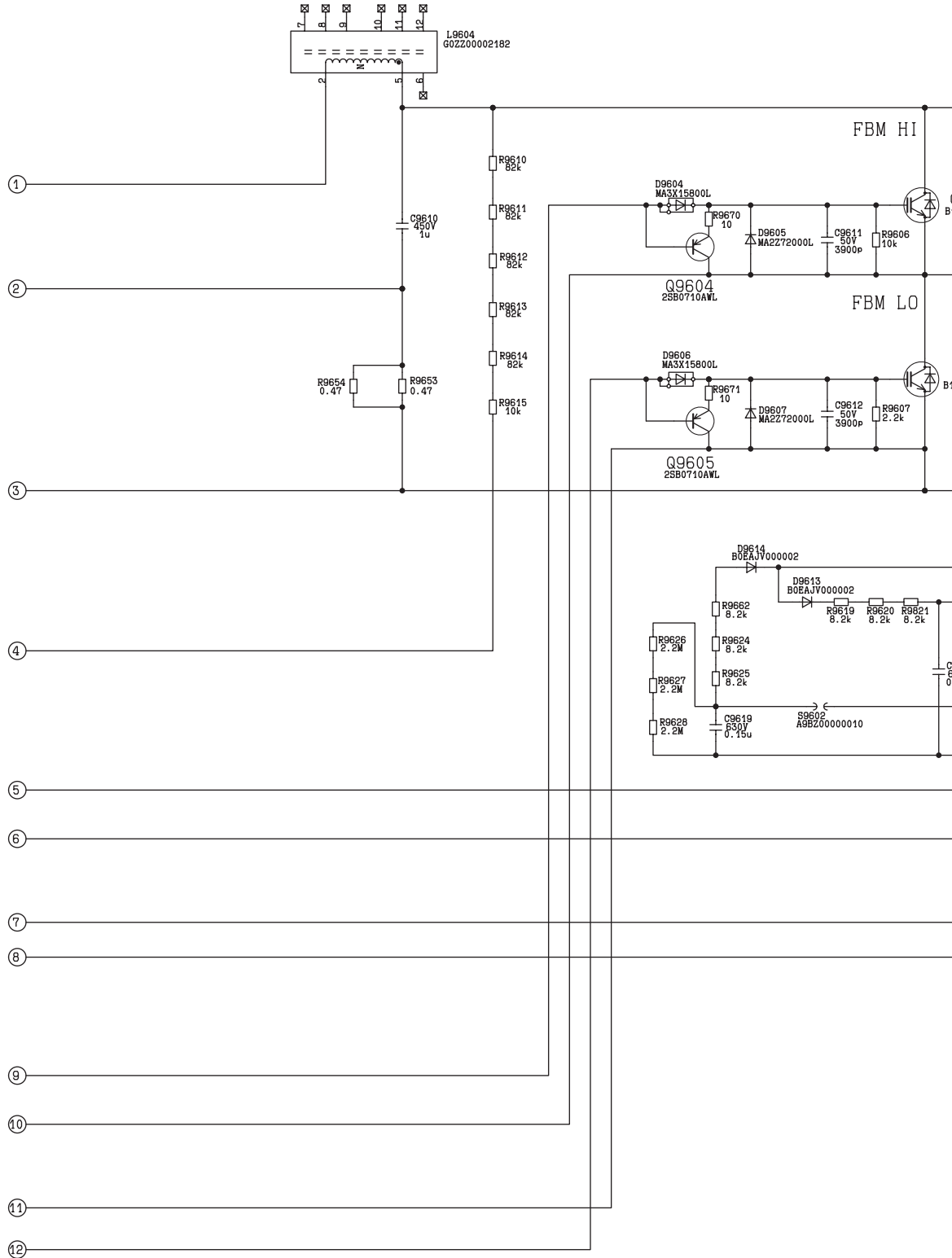
E

D

C

B

A



1

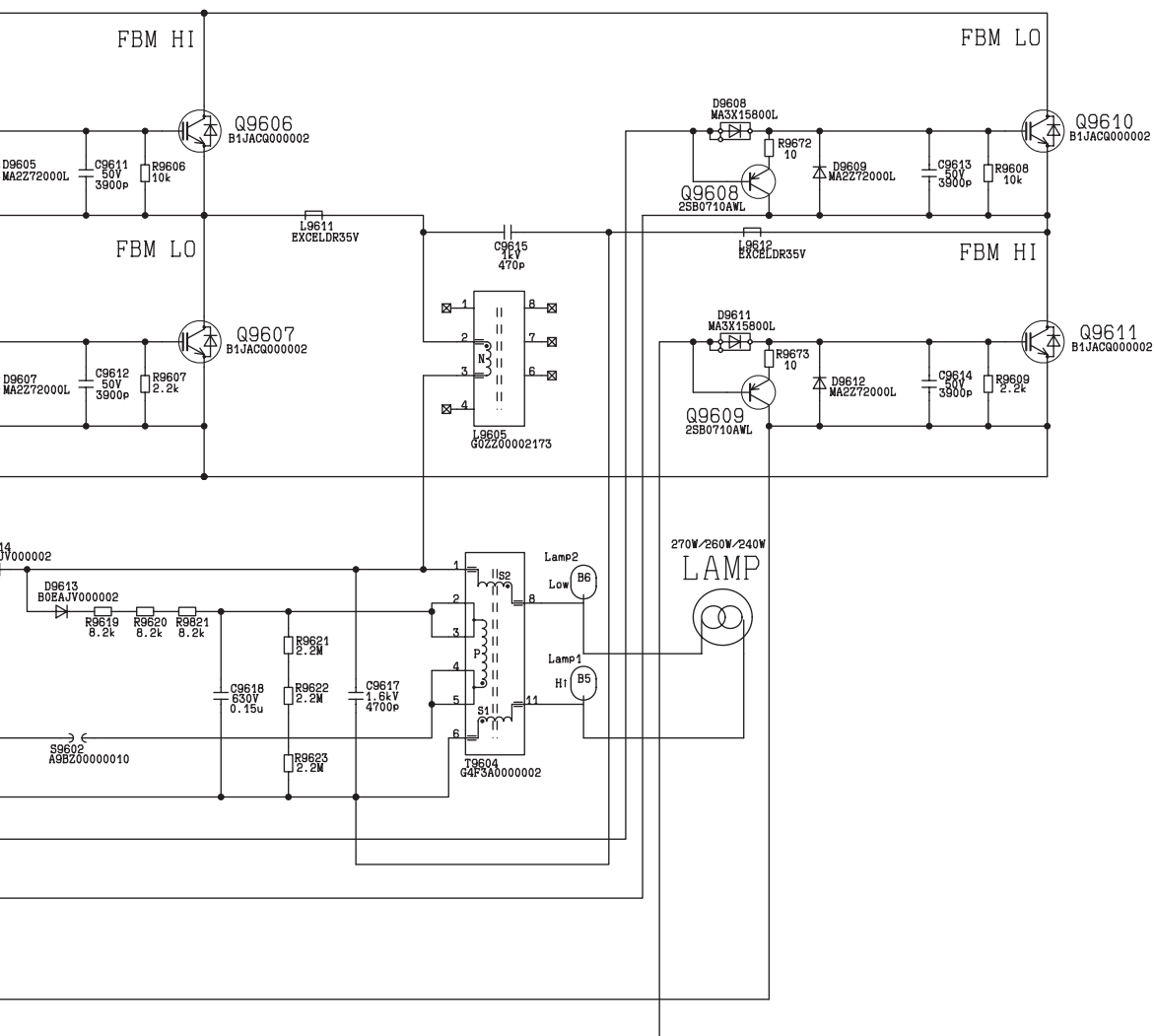
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3

4

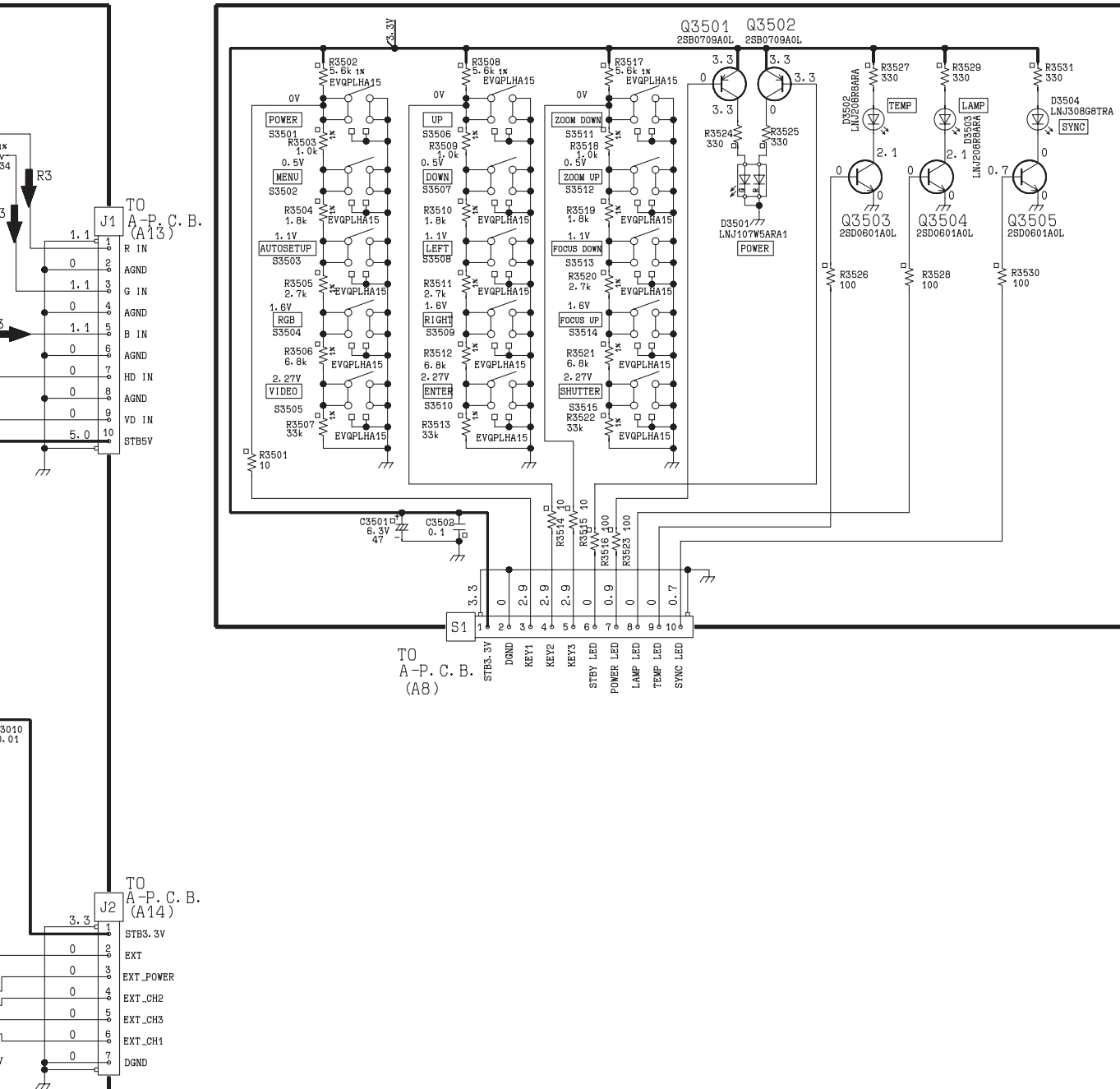
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D9601, D9604-09, D9611-12,  
L-05, T9604, S9602, TXJ/L2VJX7





# S-P.C.BOARD TNPA2546

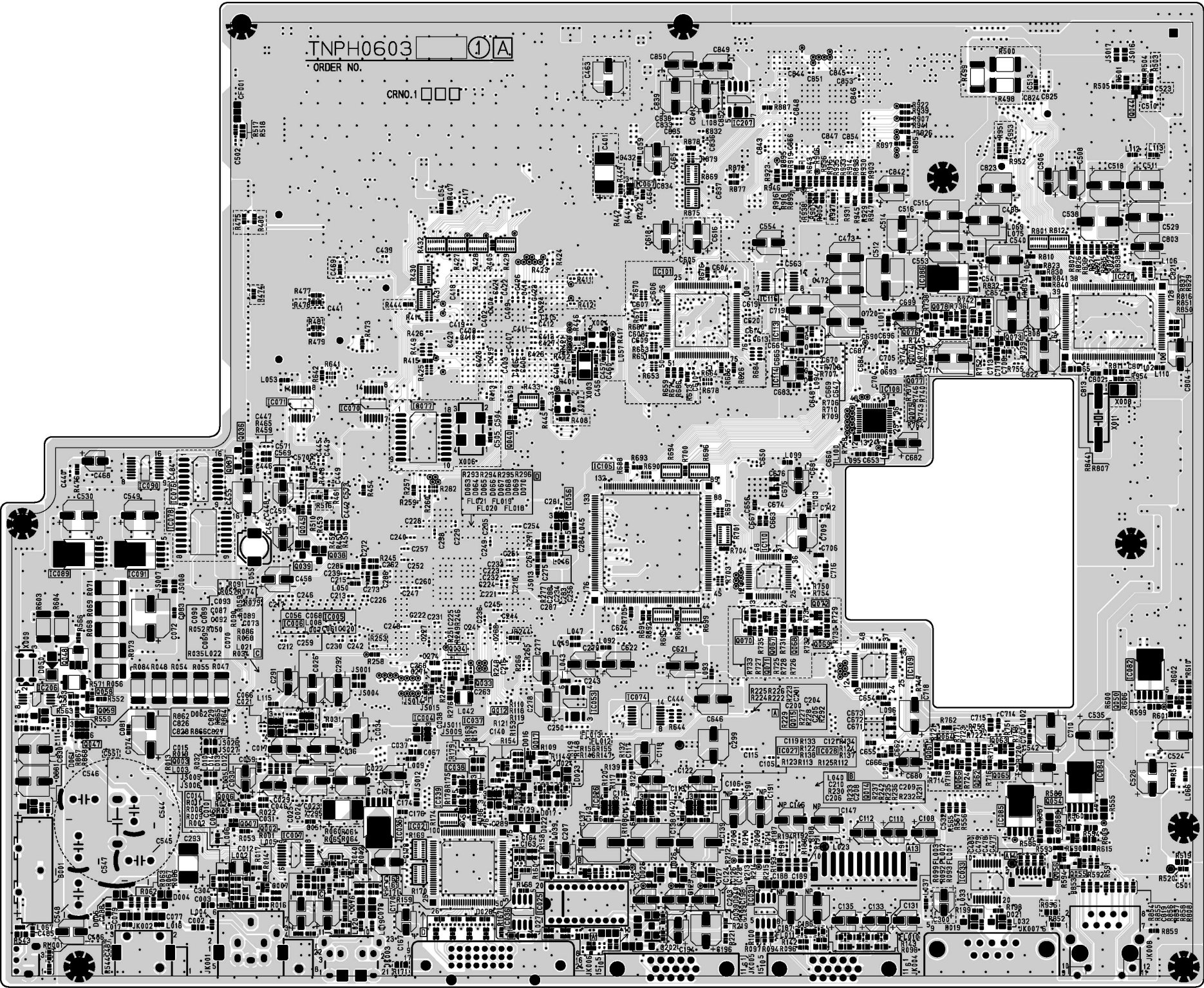








[A] A-P.C.Board TXANP04VJX7  
(Component Side)

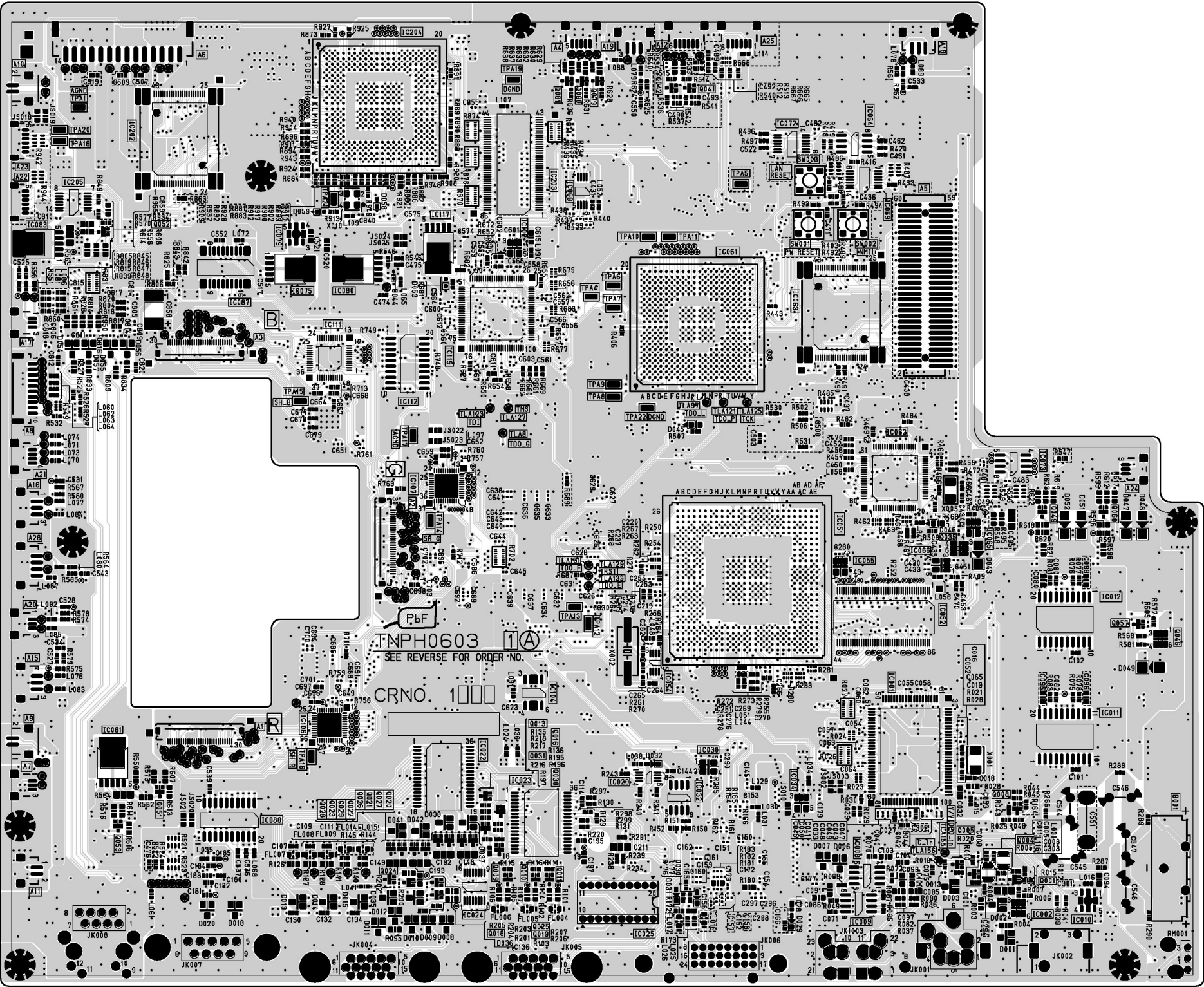


A-P.C.Board (Component Side)					
IC					
IC1004	B-3	IC1039	A-3	IC1090	C-1
IC1005	B-2	IC1053	B-4	IC1091	C-1
IC1006	B-2	IC1056	C-4	IC1101	D-4
IC1007	A-2	IC1067	E-4	IC1105	C-4
IC1021	A-3	IC1070	D-3	IC1108	D-5
IC1025	A-4	IC1071	D-2	IC1109	B-5
IC1026	B-4	IC1074	B-4	IC1110	C-5
IC1027	B-4	IC1076	C-2	IC1113	D-5
IC1028	B-4	IC1077	C-3	IC1114	D-5
IC1031	A-5	IC1078	C-2	IC1116	D-5
IC1033	A-6	IC1082	B-7	IC1201	D-6
IC1035	A-3	IC1084	B-6	IC1206	B-1
IC1036	A-3	IC1085	B-6	IC1207	E-4
IC1037	B-3	IC1086	D-6		
IC1038	B-3	IC1089	C-1		
TRANSISTOR					
Q1002	A-2	Q1040	D-3	Q1065	B-6
Q1003	A-2	Q1044	E-6	Q1066	B-6
Q1006	A-2	Q1045	C-2	Q1067	B-5
Q1007	A-2	Q1047	B-1	Q1068	B-5
Q1012	B-3	Q1048	B-1	Q1069	B-5
Q1014	B-5	Q1050	B-6	Q1070	B-5
Q1015	B-5	Q1054	B-6	Q1071	B-5
Q1017	B-3	Q1055	A-6	Q1072	B-5
Q1032	B-3	Q1056	A-6	Q1073	D-6
Q1033	B-3	Q1058	B-1	Q1074	D-5
Q1034	B-3	Q1059	B-1	Q1075	D-6
Q1036	C-2	Q1061	B-6	Q1076	D-5
Q1037	C-2	Q1062	B-6	Q1077	D-6
Q1038	C-2	Q1063	B-6	Q1078	D-6
Q1039	C-2	Q1064	B-6		

ADDRESS INFORMATION



[A] A-P.C.Board TXANP04VJX7  
(Foil Side)



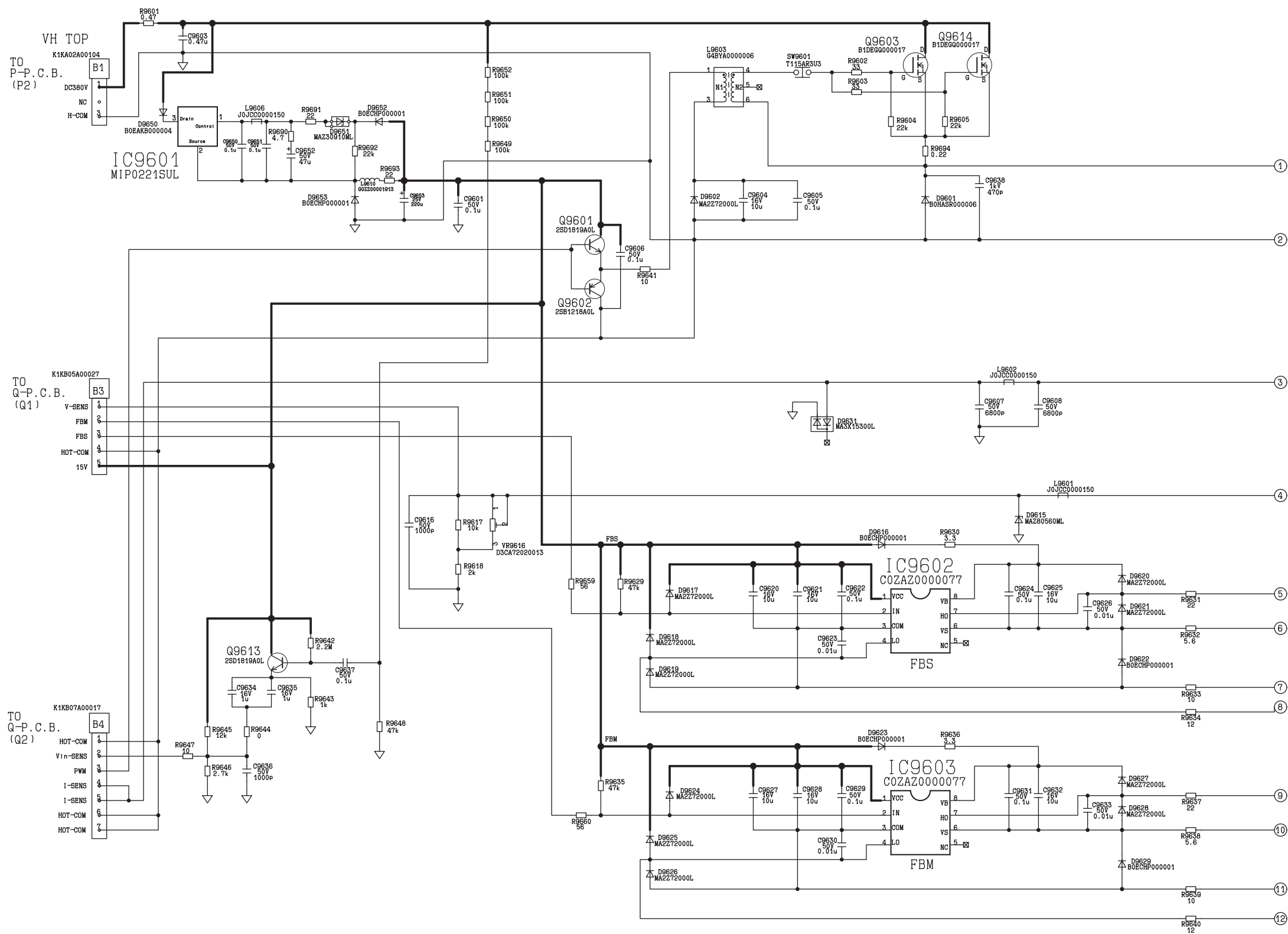
A-P.C.Board (Foil Side)					
IC					
IC1001	B-5	IC1052	B-5	IC1083	D-1
IC1002	A-6	IC1054	B-4	IC1087	D-2
IC1008	A-5	IC1055	C-5	IC1088	A-2
IC1009	A-5	IC1061	D-4	IC1102	E-3
IC1010	A-6	IC1062	C-5	IC1104	B-3
IC1011	B-6	IC1063	D-5	IC1106	B-2
IC1012	C-6	IC1064	E-5	IC1107	C-3
IC1022	B-3	IC1065	C-6	IC1111	D-2
IC1023	B-3	IC1066	C-5	IC1112	D-3
IC1024	A-3	IC1069	D-5	IC1115	D-3
IC1025	A-4	IC1072	E-5	IC1117	D-3
IC1029	B-4	IC1073	C-6	IC1202	E-2
IC1030	B-4	IC1075	D-2	IC1203	E-3
IC1032	B-4	IC1079	D-2	IC1204	E-3
IC1034	B-5	IC1080	D-2	IC1205	E-1
IC1051	C-5	IC1081	B-1		
TRANSISTOR					
Q1001	A-6	Q1021	A-3	Q1041	E-4
Q1004	A-6	Q1022	A-3	Q1042	E-4
Q1005	A-6	Q1023	A-3	Q1046	B-7
Q1008	A-6	Q1024	A-3	Q1049	C-6
Q1009	A-3	Q1025	A-3	Q1051	B-1
Q1010	A-3	Q1026	A-3	Q1052	E-1
Q1011	A-3	Q1027	A-3	Q1053	A-1
Q1013	B-3	Q1028	A-3	Q1057	B-6
Q1016	B-3	Q1029	A-3	Q1060	C-6
Q1018	A-3	Q1030	B-3	Q1079	E-4
Q1019	A-3	Q1031	B-3	Q1080	E-4
Q1020	A-3	Q1035	C-5	Q1081	E-4
TP					
TPA1	E-1	TPA10	D-4	TPA17	C-3
TPA4	D-4	TPA11	D-4	TPA18	E-1
TPA5	E-4	TPA12	B-4	TPA19	E-3
TPA6	D-4	TPA13	B-4	TPA20	E-1
TPA7	D-4	TPA14	C-3	TPA21	E-2
TPA8	D-4	TPA15	D-2	TPA22	C-4
TPA9	D-4	TPA16	B-2		

ADDRESS INFORMATION

B-Module TXANPBQVJX7 (1/2)

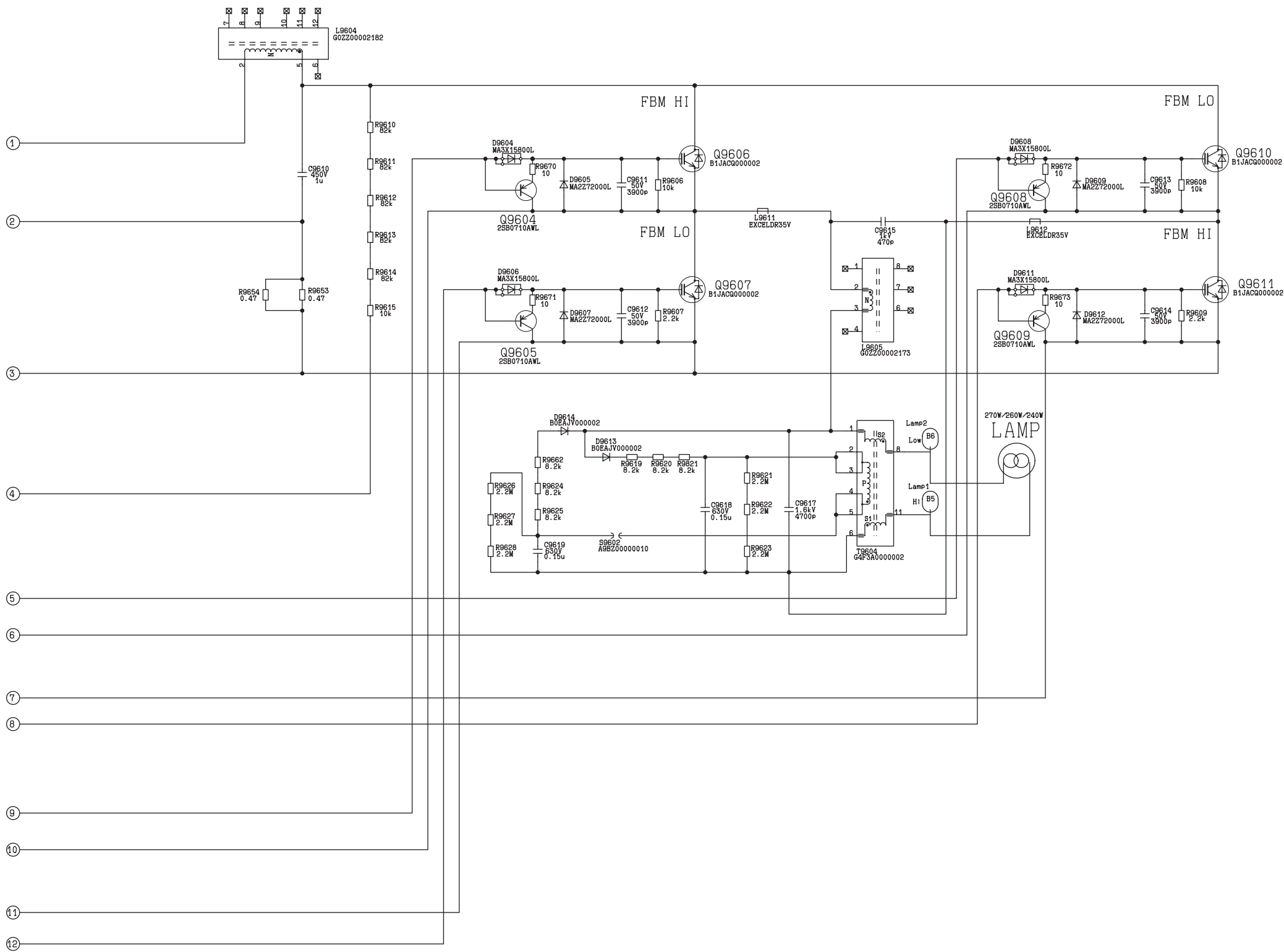
Module Replacement

Only supplied components IC9601-03, Q9603-11, Q9614, D9601, D9604-09, D9611-12, R9601, C9610, C9617-19, L9604-05, T9604, S9602, TXJ/L2VJX7



Module Replacement

Only supplied components IC9601-03, Q9603-11, Q9614, D9601, D9604-09, D9611-12, R9601, C9610, C9617-19, L9604-05, T9604, S9602, TXJ/L2VJX7





Power Supply

F

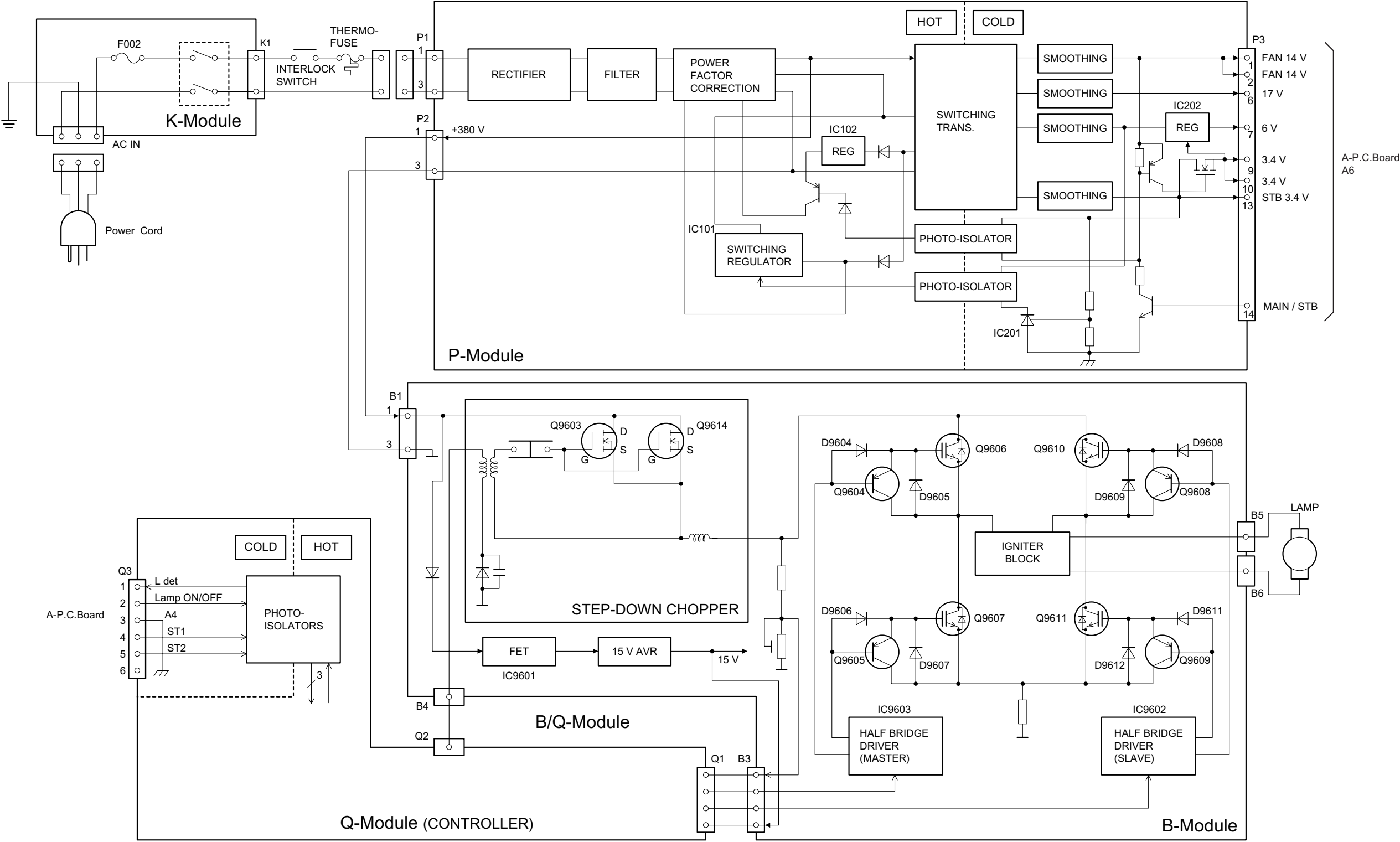
E

D

C

B

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F

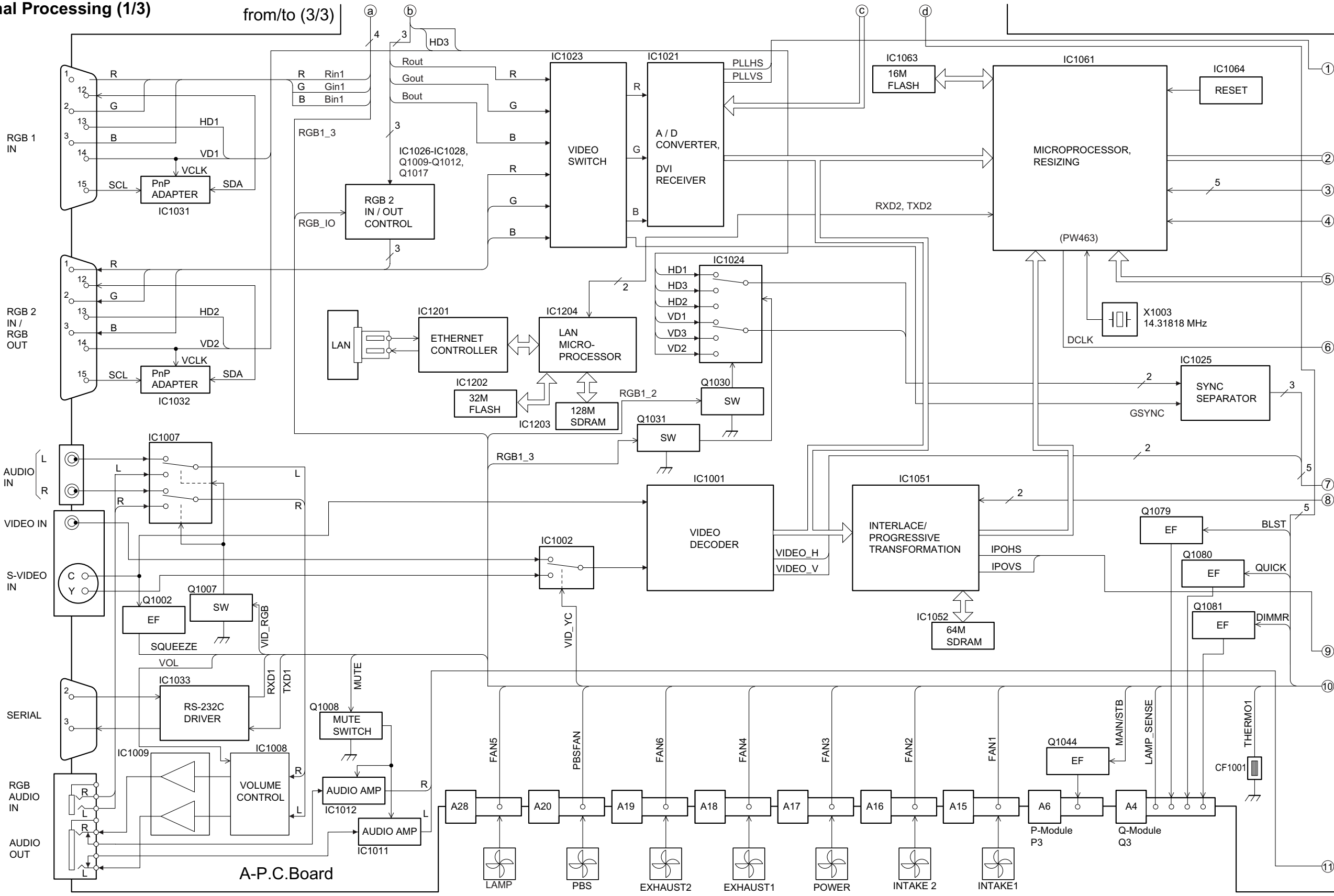
E

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C

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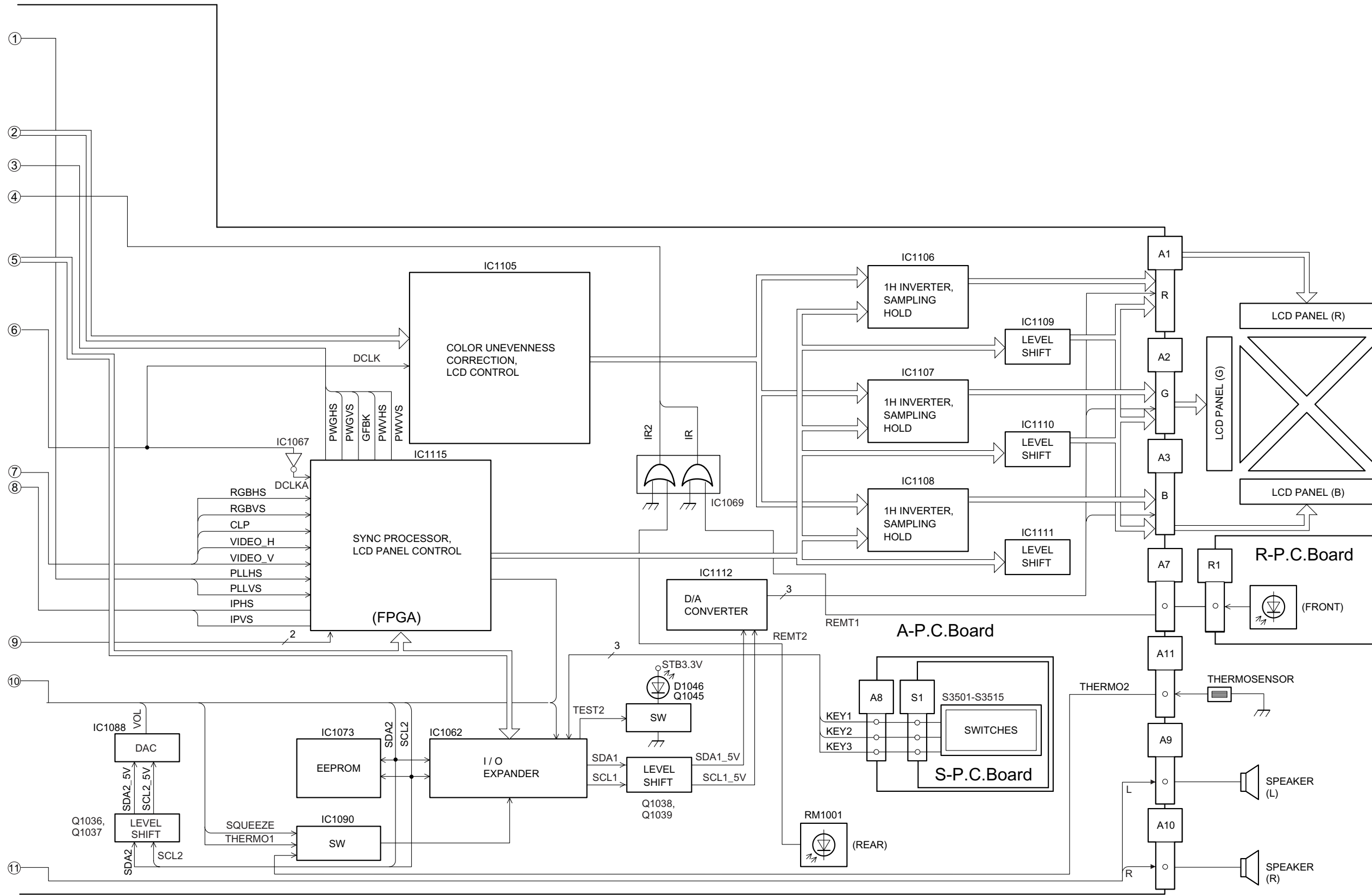
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D

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1 2 3 4 5 6 7 8 9



F

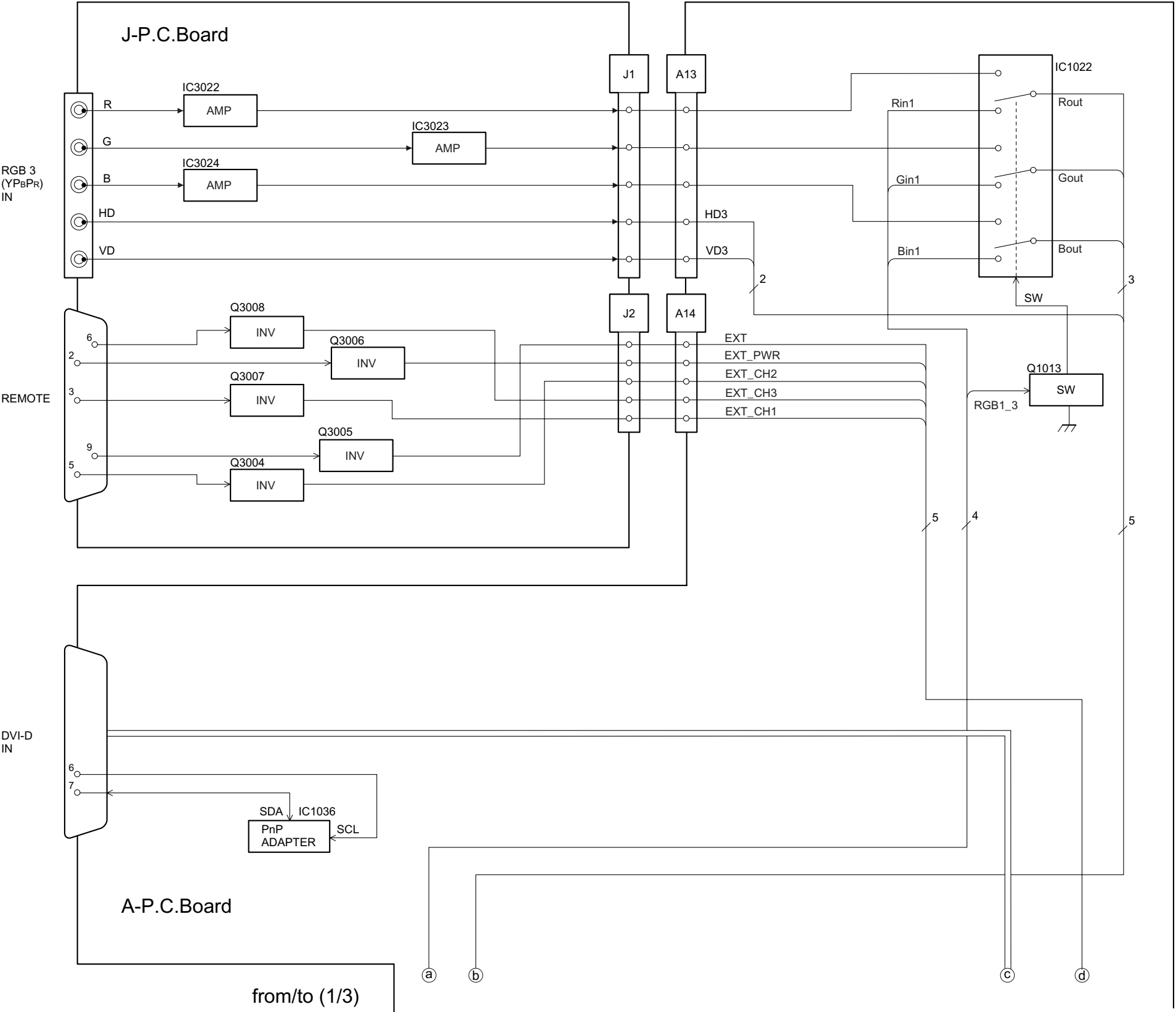
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D

C

B

A



Interconnection Block Diagram (1/2)

F

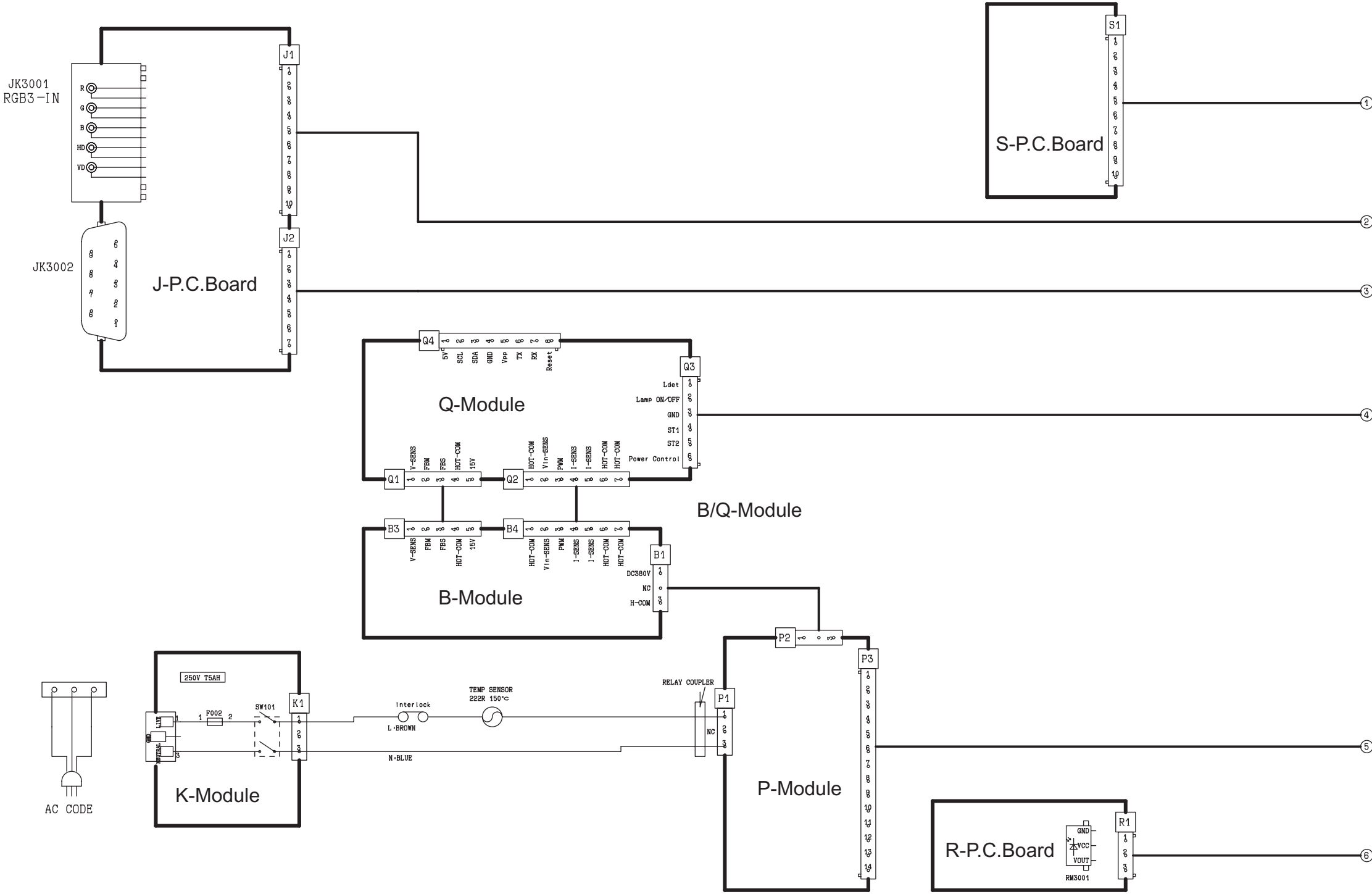
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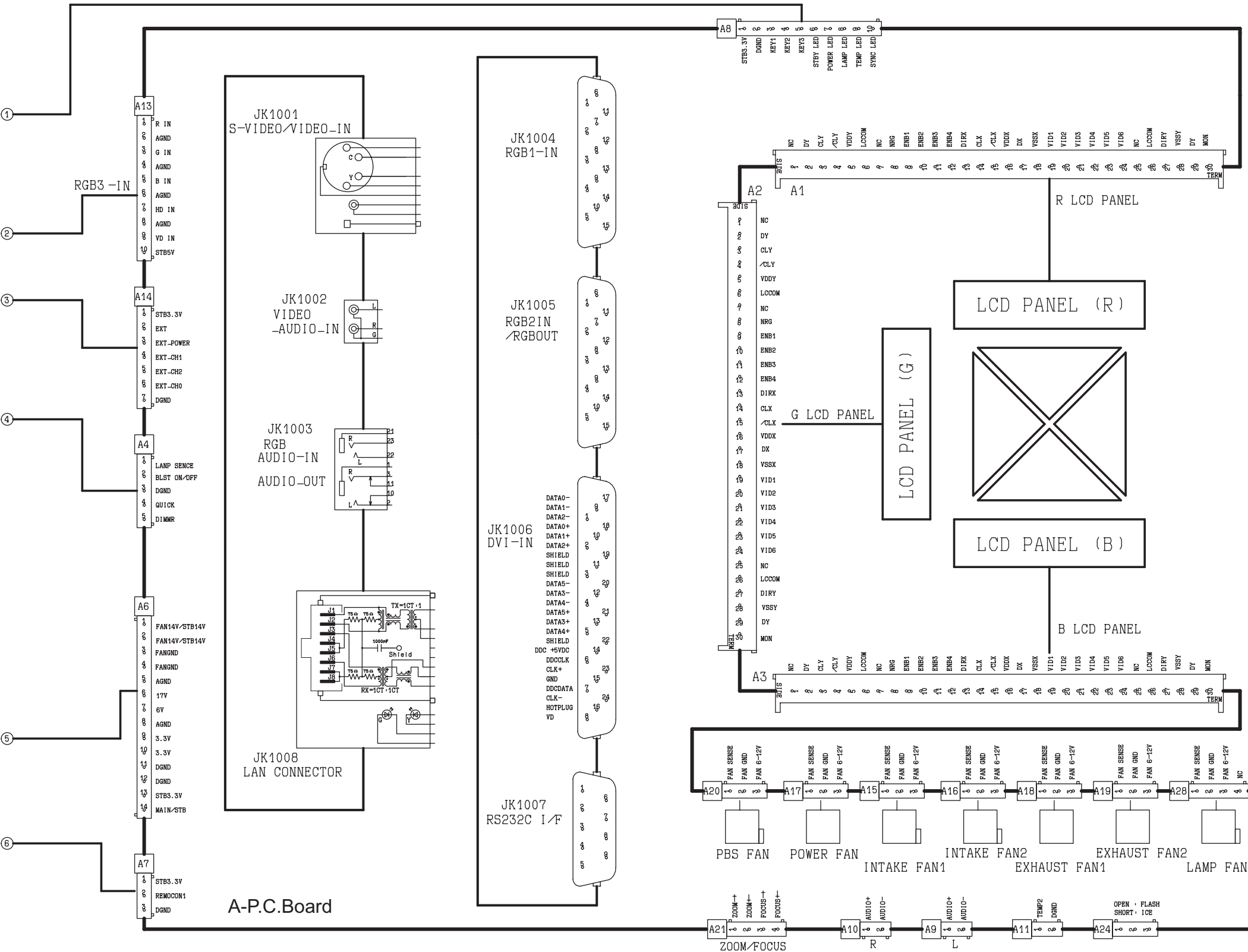
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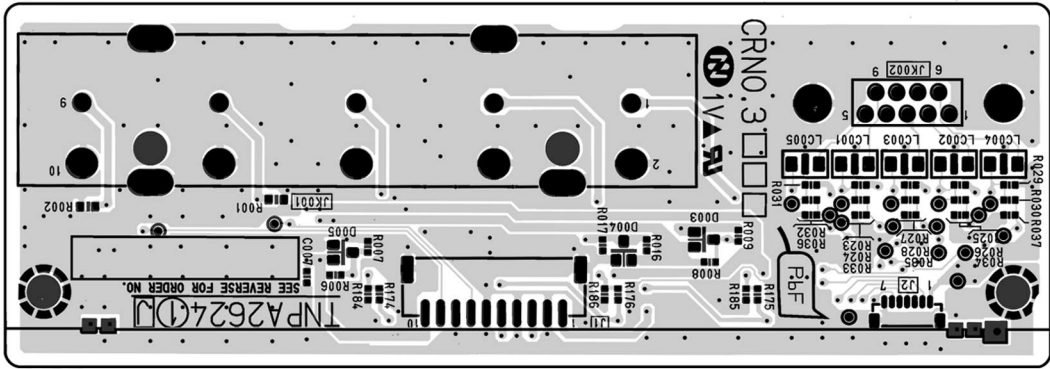
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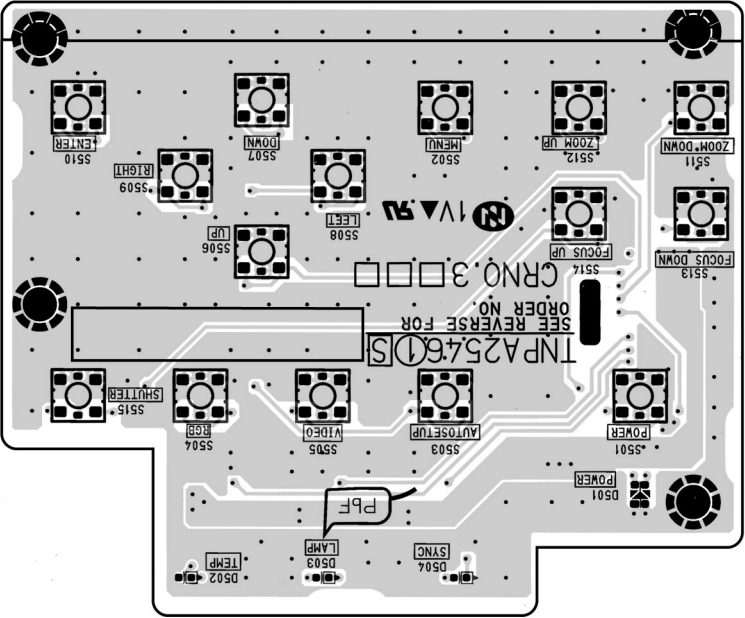
Interconnection Block Diagram (2/2)



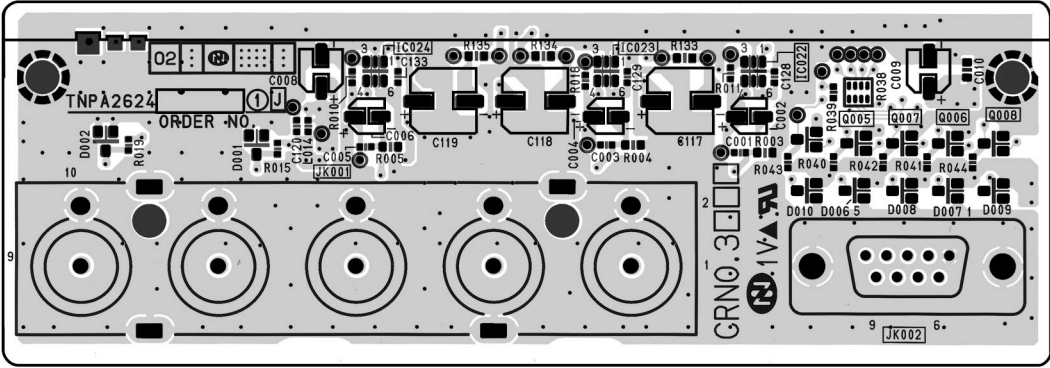
J-P.C.Board      TNPA2624  
(Foil Side)



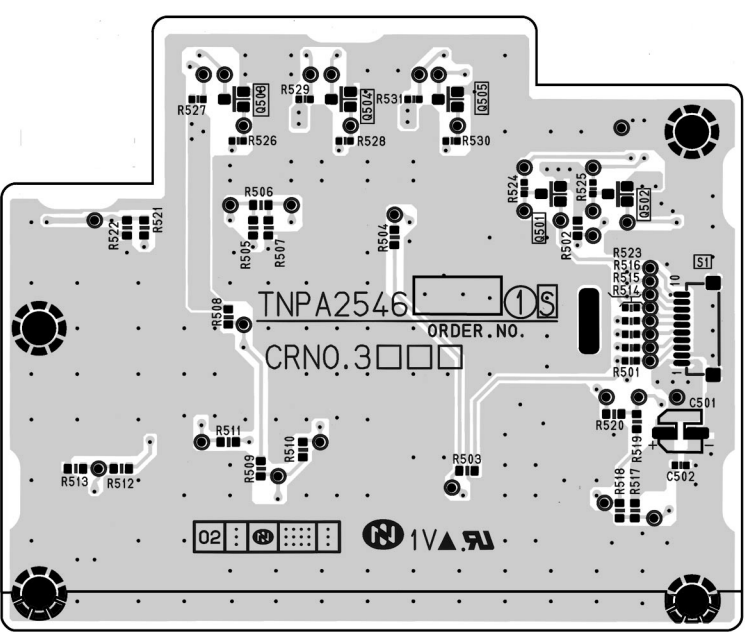
S-P.C.Board      TNPA2546  
(Foil Side)



J-P.C.Board      TNPA2624  
(Component Side)



S-P.C.Board      TNPA2546  
(Component Side)



J-P.C.Board(Component Side)				
IC				
IC3022	B-3			
IC3023	B-3			
IC3024	B-2			
TRANSISTOR				
Q3004	B-3	Q3007	B-4	
Q3005	B-3	Q3008	B-4	
Q3006	B-4			

ADDRESS INFORMATION

S-P.C.Board(Component Side)			
TRANSISTOR			
Q3501	B-7	Q3504	B-7
Q3502	B-8	Q3505	B-7
Q3503	B-6		

ADDRESS INFORMATION















